

Cherukupally (Village), Chittivalasa (SO), Bhogapuram (Mandal), Vizianagaram (Dist) -531162. www.avanthipharma.ac.in, principal@avanthipharma.ac.in

2.5.1. Mechanism of Internal / External assessment is transparent and the grievance redressal system is time-bound and efficient.

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Mechanism for Internal Examination Grievance Redressal

The college offers a well-functioning grievance procedure for examination-related issues. At the college offers a well-functioning grievance procedure for examination-related issues. At the college level, an examination committee is constituted, comprising of Principal, senior Faculty as and other teaching faculty as supporting members for smooth conduction of internal and external examinations. The end semester examination is conducted by university, and the students appear at the jumbling center allotted by the university. Students who have issues regarding exams can address principal, exam in charge and the concerned faculty. The organization conducts internal exams in accordance with university rules. In accordance with university policies and procedures, the entire grievance procedure for exams is time-bound.

There are two types of assessments:

- (1) External Examination (EE)
- (2) Internal Assessment or examination (IA).

Procedure of conduction of Internal Examination:

- In accordance with the timetables published by JNTU-GV, Vizianagaram, faculty members will enlighten students at the start of the semester about the different elements of the evaluation process.
- Two internal examinations are conducted in each semester for both theory and practical courses.
- All faculty members, students will receive schedule of internal exams and displayed on the college notice board.
- The timetables for the internal examination are created in accordance with university policies and are provided to the students plenty of notice.
- Two invigilators are appointed to each hall for the effective administration of internal assessments.
- The faculty members in charge of the course evaluate the scripts, and they are required to submit the scripts not later than three days after the exam date.
- The students receive the scripts from the concerned faculty to check any discrepancy or doubt in checking, and any concerns are promptly addressed and resolved.
- By adopting the criteria as per the guidelins of affiliating university, complete transparency is maintained in internal examinations.
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- After preparing the assessments report by faculty it is shown to Principal and a copy is submitted by the concerned faculty to the examination section.
- The assessment marks of two sessional exams displayed on the notice board, and uploaded in university portal at the end of each semester.
- Continuous mode is evaluated for each student, by considering their attendance, teacher student interaction and academic activities. The Project Review Committee (PRC) evaluates the projects quality in conjunction with the project guides.

Redressal of Internal Examination Grievances (College level):

- The concerned faculty distributes the internal examination scripts to students and collects their grievances if any.
- If any corrections raises that the marks scored are not up to his/her expectations, the student will bring them to the attention of the relevant teaching member.
- The responsible faculty member will reassess the response sheet in accordance with the evaluation scheme. If no discrepancy observed, the student will be informed by means of an explanation of the evaluation method, otherwise if discrepancy observed, the faculty will adjust the marks.
- If any complaints address by the student, In order to address these complaints, principal or HOD would give the relevant documents such as the question paper, evaluation plan, and answer script to another faculty for a prompt reevaluation.
- If there is no change in the marks upon revaluation, the student(s) will be informed as such. If there is a discrepancy any in the grades, principal/HOD will notify the relevant faculty to adjust the marks.
- The mid marks are shown on the notice board and are awarded in accordance with predetermined strategies.

Process for Examining Internal Grievances:

The college has a smooth grievance procedure for exam-related issues. If any exam irregularities observed by the college are promptly reported to the university's controller of examinations, who then makes any necessary corrections. Students can also use the web portal and suggestion box. The principal, IQAC, and exam in charge closely monitor each internal assessment procedure and make any necessary corrections. Students will be informed of the grievances' resolution within a predetermined timeframe. The action taken on the grievances will be communicated to students within a stipulated time period.



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Procedure of conduction of External Examination:

The college has a well-functioning grievance procedure for examination-related issues. Any discrepancies with the exams that the college finds are reported right away to the university controller of examinations, and any necessary corrections are only made after receiving directives from the university. It is time-bound and extremely transparent.

External Examination Process:

- The university will select an external examiner from among the other colleges to conduct the end examination for the lab and projects.
- The university will select an observer from among the other colleges to conduct the end semester theory exams.
- Based on the timetables, the Examination Cell will create the faculty invigilation chart and the student seating plan with an internal jumbling mechanism.
- Invigilators will announce the guidelines pertaining to in the examination hall.
- Examiners are required to announce in the examination hall the regulations, governing the conduct of the exams.
- It is expected of the invigilators to maintain the peace in the exam room and handle delicate situations with tact.
- If an issue is found, the person in question may notify the Chief Supervisor of the matter, and based on the gravity of the problem, the Controller of the Examinations (CE) may be notified as well.
- Exams are usually scheduled to begin at 10:00 AM for the afternoon session and at 2:00 PM for the morning session.
- The invigilators were advised to arrive at their designated examination halls no later than thirty minutes prior to the start of the exam.
- It is the sole responsibility of the invigilators assigned to a hall to submit the answer booklets to the relevant Examination Cell authorities, and they are all instructed to report back to the Examination Cell upon completion of the examination.
- Invigilators were instructed to notify the Chief Supervisor right away if they discovered or tracked down any unusual incidents while conducting the examinations.

Redressal of External Examination Grievances (University level):

After being sent through the college Examination Cell, questions about results and mark sheet corrections issued by the university are handled at the J.N.T.U-GV Examination Cell Students may request a revaluation, recount, or challenged evaluation by paying the required propressing the attraction of the cell students at th

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university if they are unhappy with the grades they received. Students may apply for revaluation, recounting, and challenged evaluation if they are unhappy with the grades they received from the university. To do this, they must pay the required processing fee. The college sends a photocopy of the mark list along with an application to correct errors at the university level for students whose marks are either not entered at all or entered incorrectly. As a result, the college handles any student grievances promptly and with the utmost care.



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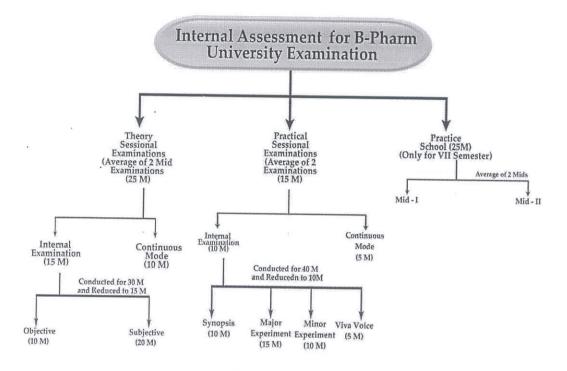
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ACADEMIC REGULATIONS AS PER UNIVERSITY AND PCI GUIDELINES

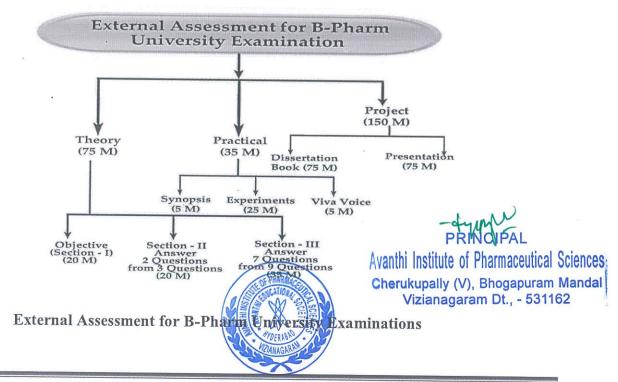


Mechanism of Internal and External Examinations

Avanthi Institute of Pharmaceutical technology follows the academic regulations and guidelines set by the University and PCI, New Delhi.



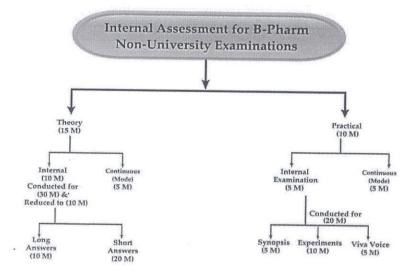
Internal Assessment for B Pharm University Examinations



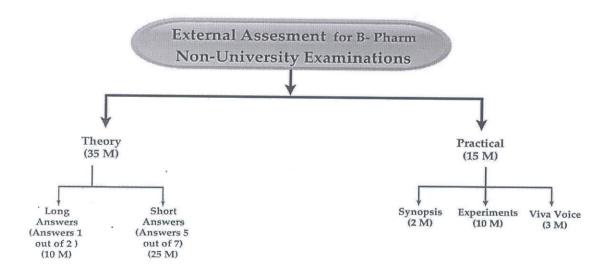
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Internal Assessment for B-Pharm Non-University Examinations



External Assessment for B-Pharm Non-University Examinations



Avanthi Institute of Pharmaceutical Sciences

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Avanthi Institute of Pharmaceutical Sciences



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Rules & Syllabus for the Bachelor of Pharmacy (B. Pharm) Course as approved by Pharmacy Council of India New Delhi

[Framed under Regulation 6, 7 & 8 of the Bachelor of Pharmacy (B. Pharm) course regulations 2014]

CHAPTER-I: REGULATIONS

1. Short Title and Commencement

These regulations shall be called as "The Revised Regulations for the B. Pharm. Degree Program (CBCS) of the Pharmacy Council of India, New Delhi". They shall come into effect from the Academic Year 2016-17. The regulations framed are subject to modifications from time to time by Pharmacy Council of India.

2. Minimum qualification for admission

2.1 First year B. Pharm:

Candidate shall have passed 10+2 examination conducted by the respective state/central government authorities recognized as equivalent to 10+2 examination by the Association of Indian Universities (AIU) with English as one of the subjects and Physics, Chemistry, Mathematics (P.C.M) and or Biology (P.C.B / P.C.M.B.) as optional subjects individually. Any other qualification approved by the Pharmacy Council of India as equivalent to any of the above examinations.

2.2. B. Pharm lateral entry (to third semester):

A pass in D. Pharm. course from an institution approved by the Pharmacy Council of India under section 12 of the Pharmacy Act.

3. Duration of the program

The course of study for B.Pharm shall extend over a period of eight semesters (four academic years) and six semesters (three academic years) for lateral entry students. The curricula and syllabi for the program shall be prescribed from time to time by Pharmacy Council of India, New Delhi.

4. Medium of instruction and examinations

Medium of instruction and examination shall be in English.

5. Working days in each semester

Each semestershall consist of not less than 100 working days. The odd semesters shall be conducted from the month of June/July to November/December and the even semesters shall be conducted from December/January to May/June in every calendar year.

6. Attendance and progress

A candidate is required to put in at least 80% attendance in individual courses considering theory and practical separately. The candidate shall complete the prescribed course satisfactorily to be eligible to appear for the respective examinations.

7. Program/Course credit structure

As per the philosophy of Credit Based Semester System, certain quantum of academic work viz. theory classes, tutorial hours, practical classes, etc. are measured in terms of credits. On satisfactory completion of the courses, a candidate earns credits. The amount of credit associated with a course is dependent upon the number of hours of instruction per week in that course. Similarly, the credit associated with any of the other academic, co/extra-curricular activities is dependent upon the quantum of work expected to be put in for each of these activities per week.

7.1. Credit assignment

7.1.1. Theory and Laboratory courses

Courses are broadly classified as Theory and Practical. Theory courses consist of lecture (L) and /or tutorial (T) hours, and Practical (P) courses consist of hours spent in the laboratory. Credits (C) for a course is dependent on the number of hours of instruction per week in that course, and is obtained by using a multiplier of one (1) for lecture and tutorial hours, and a multiplier of half (1/2) for practical (laboratory) hours. Thus, for example, a theory course having three lectures and one tutorial per week throughout the semester carries a credit of 4. Similarly, a practical having four laboratory hours per week throughout semester carries a credit of 2.

7.2. Minimum credit requirements

The minimum credit points required for award of a B. Pharm. degree is 208. These credits are divided into Theory courses, Tutorials, Practical, Practice School and Projectover the duration of eight semesters. The credits are distributed semester-wise as shown in Table IX. Courses generally progress in sequences, building competencies and their positioning indicates certain academic maturity on the part of the learners. Learners are expected to follow the semester-wise schedule of courses given in the syllabus.

The lateral entry students shall get 52 credit points transferred from their D. Pharm program. Such students shall take up additional remedial courses of 'Communication Skills' (Theory and Practical) and 'Computer Applications in Pharmacy' (Theory and Practical) equivalent to 3 and 4 credit points respectively, a total of 7 credit points to attain 59 credit points, the maximum of I and II semesters.

8. Academic work

A regular record of attendance both in Theory and Practical shall be maintained by the teaching staff of respective courses.

9. Course of study

The course of study for B. Pharm shall include Semester Wise Theory & Practical as given in Table – I to VIII. The number of hours to be devoted to each theory, tutorial and practical course in any semester shall not be less than that shown in Table – I to VIII.

Table-1. Course of study for semester 1					
Course code	Name of the course	No. of hours	Tuto rial	Credit points	
BP101T	Human Anatomy and Physiology I– Theory	3	1	4	
BP102T	Pharmaceutical Analysis I – Theory	3	1	4	
BP103T	Pharmaceutics I – Theory	3	1	4	
BP104T	Pharmaceutical Inorganic Chemistry – Theory	3	1	4	
BP105T	Communication skills – Theory *	2	-	2	
BP106RBT BP106RMT	Remedial Biology/ Remedial Mathematics – Theory*	2	-	2	
BP107P	Human Anatomy and Physiology – Practical	4	-	2	
BP108P	Pharmaceutical Analysis I – Practical	4	-	2	
BP109P	Pharmaceutics I – Practical	4	-	2	
BP110P	Pharmaceutical Inorganic Chemistry – Practical	4	-	2	
BP111P	Communication skills – Practical*	2	-	1	
BP112RBP	Remedial Biology – Practical*	2	-	1	
#	Total	32/34 ^{\$} /36 [#]	4	27/29 ^{\$} /30 [#]	

[#]Applicable ONLY for the students who have studied Mathematics / Physics / Chemistry at HSC and appearing for Remedial Biology (RB)course.

^{\$}Applicable ONLY for the students who have studied Physics / Chemistry / Botany / Zoology at HSC and appearing for Remedial Mathematics (RM)course.

* Non University Examination (NUE)

Course Code	Name of the course	No. of hours	Tutorial	Credit points
BP201T	Human Anatomy and Physiology II – Theory	3	1	4
BP202T	Pharmaceutical Organic Chemistry I – Theory	3	1	4
BP203T	Biochemistry – Theory	3	1	4
BP204T	Pathophysiology – Theory	3	1	4
BP205T	Computer Applications in Pharmacy – Theory *	3	-	3
BP206T	Environmental sciences – Theory *	3	-	3
BP207P	Human Anatomy and Physiology II – Practical	4	-	2
BP208P	Pharmaceutical Organic Chemistry I– Practical	4	-	2
BP209P	Biochemistry – Practical	4	-	2
BP210P	Computer Applications in Pharmacy – Practical*	2	-	1
	Total	32	4	29

Table-II: Course of study for semester II

*Non University Examination (NUE)

Table-III: Course of study for semester III

Course code	Name of the course	No. of hours	Tutorial	Credit points
BP301T	Pharmaceutical Organic Chemistry II – Theory	3	1	4
BP302T	Physical Pharmaceutics I – Theory	3	1	4
BP303T	Pharmaceutical Microbiology – Theory	3	1	4
BP304T	Pharmaceutical Engineering – Theory	3	1	4
BP305P	Pharmaceutical Organic Chemistry II – Practical	4	-	2
BP306P	Physical Pharmaceutics I – Practical	4	-	2
BP307P	Pharmaceutical Microbiology – Practical	4	-	2
BP 308P	Pharmaceutical Engineering –Practical	4	-	2
	Total	28	4	24

Course code	Name of the course	No. of hours	Tutorial	Credit points
BP401T	Pharmaceutical Organic Chemistry III- Theory	3	1	4
BP402T	Medicinal Chemistry I – Theory	3	1	4
BP403T	Physical Pharmaceutics II – Theory	3	1	4
BP404T	Pharmacology I – Theory	3	1	4
BP405T	Pharmacognosy and Phytochemistry I- Theory	3	1	4
BP406P	Medicinal Chemistry I – Practical	4	-	2
BP407P	Physical Pharmaceutics II – Practical	4		2
BP408P	Pharmacology I – Practical	4	-	2
BP409P	Pharmacognosy and Phytochemistry I – Practical	4	-	2
	Total	31	5	28

Table-IV: Course of study for semester IV

Table-V: Course of study for semester V

Course code	Name of the course	No. of hours	Tutorial	Credit points
BP501T	Medicinal Chemistry II – Theory	3	1	4
BP502T	Industrial PharmacyI– Theory	3	1	4
BP503T	Pharmacology II – Theory	3	1	4
BP504T	Pharmacognosy and Phytochemistry II- Theory	3	1	4
BP505T	Pharmaceutical Jurisprudence – Theory	3	1	4
BP506P	Industrial PharmacyI – Practical	4	-	2
BP507P	Pharmacology II – Practical	4	-	2
BP508P	Pharmacognosy and Phytochemistry II –	4	-	2
	Practical			
	Total	27	5	26

Course code	Name of the course	No. of hours	Tutorial	Credit points
BP601T	Medicinal Chemistry III – Theory	3	1	4
BP602T	Pharmacology III – Theory	3	1	4
BP603T	Herbal Drug Technology – Theory	3	1	4
BP604T	Biopharmaceutics and Pharmacokinetics – Theory	3	1	4
BP605T	Pharmaceutical Biotechnology – Theory	3	1	4
BP606T	Quality Assurance – Theory	3	1	4
BP607P	Medicinal chemistry III – Practical	4	-	2
BP608P	Pharmacology III – Practical	4	-	2
BP609P	Herbal Drug Technology – Practical	4	-	2
	Total	30	6	30

Table-VI: Course of study for semester VI

Table-VII: Course of study for semester VII

Course code	Name of the course	No. of hours	Tutorial	Credit points
BP701T	Instrumental Methods of Analysis – Theory	3	1	4
BP702T	Industrial PharmacyII – Theory	3	1	4
BP703T	Pharmacy Practice – Theory	3	1	4
BP704T	Novel Drug Delivery System – Theory	3	1	4
BP705P	Instrumental Methods of Analysis – Practical	4	-	2
BP706PS	Practice School*	12	-	6
	Total	28	5	24

* Non University Examination (NUE)

Course code	Name of the course	No. of hours	Tutorial	Credit points
BP801T	Biostatistics and Research Methodology	3	1	4
BP802T	Social and Preventive Pharmacy	3	1	4
BP803ET	Pharma Marketing Management			
BP804ET	Pharmaceutical Regulatory Science		1 + 1 = 2	
BP805ET	Pharmacovigilance	3 + 3 =		4 + 4 = 8
BP806ET	Quality Control and Standardization of Herbals			
BP807ET	Computer Aided Drug Design	6		
BP808ET	Cell and Molecular Biology			
BP809ET	Cosmetic Science			
BP810ET	Experimental Pharmacology			
BP811ET	Advanced Instrumentation Techniques			
BP812ET	Dietary Supplements and Nutraceuticals			
BP813PW	Project Work	12	-	6
	Total	24	4	22

Table-VIII: Course of study for semester VIII

Table-IX: Semester wise credits distribution

Semester	Credit Points
I	27/29 ^{\$} /30 [#]
II	29
III	26
IV	28
V	26
VI	26
VII	24
VIII	22
Extracurricular/ Co curricular activities	01*
Total credit points for the program	209/211 ^{\$} /212 [#]

* The credit points assigned for extracurricular and or co-curricular activities shall be given by the Principals of the colleges and the same shall be submitted to the University. The criteria to acquire this credit point shall be defined by the colleges from time to time.

^{\$}Applicable ONLY for the students studied Physics / Chemistry / Botany / Zoology at HSC and appearing for Remedial Mathematics course.

[#]Applicable ONLY for the students studied Mathematics / Physics / Chemistry at HSC and appearing for Remedial Biology course.

10. Program Committee

- 1. The B. Pharm. program shall have a Program Committee constituted by the Head of the institution in consultation with all the Heads of the departments.
- 2. The composition of the Program Committee shall be as follows:

A senior teacher shall be the Chairperson; One Teacher from each department handling B.Pharm courses; and four student representatives of the program (one from each academic year), nominated by the Head of the institution.

- 3. Duties of the Program Committee:
 - i. Periodically reviewing the progress of the classes.
 - ii. Discussing the problems concerning curriculum, syllabus and the conduct of classes.
 - iii. Discussing with the course teachers on the nature and scope of assessment for the course and the same shall be announced to the students at the beginning of respective semesters.
 - iv. Communicating its recommendation to the Head of the institution on academic matters.
 - v. The Program Committee shall meet at least thrice in a semester preferably at the end of each Sessionalexam (Internal Assessment) and before the end semester exam.

11. Examinations/Assessments

The scheme for internal assessment and end semester examinations is given in Table – X.

11.1. End semester examinations

The End Semester Examinations for each theory and practical coursethrough semesters I to VIII shall beconducted by the university except for the subjects with asterix symbol (*) in table I and II for which examinations shall be conducted by the subject experts at college level and the marks/grades shall be submitted to the university.

Tables-X: Schemes for internal assessments and end semester examinations semester wise

Semester I

Course			Internal As	sessment		End Semes	ter Exams	Total
code	Name of the course	Continuous	Sessional l	Exams	Total	Marks	Duration	Marks
		Mode	Marks	Duration	Total	IVIAI KS	Duration	
BP101T	Human Anatomy and Physiology I– Theory	10	15	1 Hr	25	75	3 Hrs	100
BP102T	Pharmaceutical Analysis I – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP103T	Pharmaceutics I – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP104T	Pharmaceutical Inorganic Chemistry – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP105T	Communication skills – Theory *	5	10	1 Hr	15	35	1.5 Hrs	50
BP106RBT BP106RMT	Remedial Biology/ Mathematics – Theory*	5	10	1 Hr	15	35	1.5 Hrs	50
BP107P	Human Anatomy and Physiology – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP108P	Pharmaceutical Analysis I – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP109P	Pharmaceutics I – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP110P	Pharmaceutical Inorganic Chemistry – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP111P	Communication skills – Practical*	5	5	2 Hrs	10	15	2 Hrs	25
BP112RBP	Remedial Biology – Practical*	5	5	2 Hrs	10	15	2 Hrs	25
	Total	70/75 ^{\$} /80 [#]	115/125 ^{\$} /130 [#]	23/24 ^{\$} /26 [#] Hrs	185/200 ^{\$} /210 [#]	490/525 ^{\$} / 540 [#]	31.5/33 ^{\$} / 35 [#] Hrs	675/725 ^{\$} / 750 [#]

*Applicable ONLY for the students studied Mathematics / Physics / Chemistry at HSC and appearing for Remedial Biology (RB)course.

^{\$}Applicable ONLY for the students studied Physics / Chemistry / Botany / Zoology at HSC and appearing for Remedial Mathematics (RM)course.

* Non University Examination (NUE)

Semester II

Course]	Internal As	ssessment		End Semester Exams		Total Marks
code	Name of the course	Continuous	Session	al Exams	Total	Marks Duration		
coue		Mode	Marks	Duration	Total	IVIAI KS	Duration	17141185
BP201T	Human Anatomy and Physiology II – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP202T	Pharmaceutical Organic Chemistry I – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP203T	Biochemistry – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP204T	Pathophysiology – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP205T	Computer Applications in Pharmacy – Theory*	10	15	1 Hr	25	50	2 Hrs	75
BP206T	Environmental sciences – Theory*	10	15	1 Hr	25	50	2 Hrs	75
BP207P	Human Anatomy and Physiology II –Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP208P	Pharmaceutical Organic Chemistry I– Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP209P	Biochemistry – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP210P	Computer Applications in Pharmacy – Practical*	5	5	2 Hrs	10	15	2 Hrs	25
	Total	80	125	20 Hrs	205	520	30 Hrs	725

* The subject experts at college level shall conduct examinations

Semester III

Course			Internal As	sessment		End Semester Exams		Total
code	Name of the course	Continuous	Session	al Exams	Total	Marks	Duration	Marks
		Mode	Marks	Duration	10001	Wiai KS	Duration	101001115
BP301T	Pharmaceutical Organic Chemistry II – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP302T	PhysicalPharmaceuticsI – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP303T	Pharmaceutical Microbiology – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP304T	Pharmaceutical Engineering – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP305P	Pharmaceutical Organic Chemistry II – Practical	5	10	4 Hr	15	35	4 Hrs	50
BP306P	Physical Pharmaceutics I – Practical	5	10	4 Hr	15	35	4 Hrs	50
BP307P	Pharmaceutical Microbiology – Practical	5	10	4 Hr	15	35	4 Hrs	50
BP308P	Pharmaceutical Engineering – Practical	5	10	4 Hr	15	35	4 Hrs	50
	Total	60	100	20	160	440	28Hrs	600

Semester IV

Course]	Internal As	ssessment		End Semester Exams		Total Marks
code	Name of the course	Continuous	Session	Sessional Exams		Marks	Duration	
couc		Mode	Marks	Duration	Total	WIATKS	Duration	Wiai Ko
BP401T	Pharmaceutical Organic	10	15	1 Hr	25	75	3 Hrs	100
DI 401 I	Chemistry III– Theory	10	15	1 111	25	15	3 HIS	100
BP402T	Medicinal Chemistry I – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP403T	Physical Pharmaceutics II – Theory	10	15	1 Hr	25	75	3 Hrs	100
DD404T		10	15	1 Hr	25	75	2 11.00	100
BP404T	Pharmacology I – Theory	10		I Πſ			3 Hrs	100
BP405T	Pharmacognosy I – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP406P	Medicinal Chemistry I – Practical	5	10	4 Hr	15	35	4 Hrs	50
BP407P	Physical Pharmaceutics II – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP408P	Pharmacology I – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP409P	Pharmacognosy I – Practical	5	10	4 Hrs	15	35	4 Hrs	50
	Total	70	115	21 Hrs	185	515	31 Hrs	700

Semester V

Course			Internal As	sessment		End Semester Exams		Total Marks
code	Name of the course	Continuous	Session	Sessional Exams		Marks	Duration	
coue		Mode	Marks	Duration	Total		Duration	101ul h5
BP501T	Medicinal Chemistry II – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP502T	Industrial PharmacyI– Theory	10	15	1 Hr	25	75	3 Hrs	100
BP503T	Pharmacology II – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP504T	Pharmacognosy II – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP505T	Pharmaceutical Jurisprudence –	10	15	1 Hr	25	75	3 Hrs	100
DF 303 I	Theory	10	15	I Hr	23	15	5 118	100
BP506P	Industrial PharmacyI– Practical	5	10	4 Hr	15	35	4 Hrs	50
BP507P	Pharmacology II – Practical	5	10	4 Hr	15	35	4 Hrs	50
BP508P	Pharmacognosy II – Practical	5	10	4 Hr	15	35	4 Hrs	50
	Total	65	105	17 Hr	170	480	27 Hrs	650

Semester VI

Course			Internal As	sessment	End Semester Exams			Total
code	Name of the course	Continuous	Session	al Exams	Total	Marks	Duration	Marks
coue		Mode	Marks	Duration	Total	Marks	Duration	iviai ks
BP601T	Medicinal Chemistry III – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP602T	Pharmacology III – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP603T	Herbal Drug Technology – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP604T	Biopharmaceutics and Pharmacokinetics – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP605T	Pharmaceutical Biotechnology– Theory	10	15	1 Hr	25	75	3 Hrs	100
BP606T	Quality Assurance– Theory	10	15	1 Hr	25	75	3 Hrs	100
BP607P	Medicinal chemistry III – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP608P	Pharmacology III – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP609P	Herbal Drug Technology – Practical	5	10	4 Hrs	15	35	4 Hrs	50
	Total	75	120	18 Hrs	195	555	30 Hrs	750

Semester VII

Course	Name of the course]	Internal Assessment			End Semester Exams		Total
code	Name of the course	Continuous	Session	al Exams	Total	Marks	Duration	Marks
		Mode Marks Duration	Total	IVIALKS	Duration			
BP701T	Instrumental Methods of Analysis – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP702T	Industrial Pharmacy – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP703T	Pharmacy Practice – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP704T	Novel Drug Delivery System – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP705 P	Instrumental Methods of Analysis – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP706 PS	Practice School*	25	-	-	25	125	5 Hrs	150
	Total	70	70	8Hrs	140	460	21 Hrs	600

* The subject experts at college level shall conduct examinations

Semester VIII

Commo			Internal As	sessment		End Semester Exams		Total
Course code	Name of the course	Continuous	Session	al Exams	Total	Monka	Duration	Marks
coue		Mode	Marks	Duration	Total	Marks Duration		warks
BP801T	Biostatistics and Research Methodology – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP802T	Social and Preventive Pharmacy – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP803ET	Pharmaceutical Marketing – Theory							
BP804ET	Pharmaceutical Regulatory Science – Theory							
BP805ET	Pharmacovigilance – Theory							
BP806ET	Quality Control and Standardization of Herbals – Theory	10 + 10	15 + 15 =	1 + 1 =	25 + 25 =	75 + 75	3 + 3 = 6	100 +
BP807ET	Computer Aided Drug Design – Theory	= 20	30	2 Hrs	50	= 150	Hrs	100 = 200
BP808ET	Cell and Molecular Biology – Theory							
BP809ET	Cosmetic Science – Theory							
BP810ET	Experimental Pharmacology – Theory							
BP811ET	Advanced Instrumentation Techniques – Theory							
BP812PW	Project Work	-	-	-	-	150	4 Hrs	150

Total 40	60 4 Hrs	100 450	16 Hrs	550
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11.2. Internal assessment: Continuous mode

The marks allocated for Continuous mode of Internal Assessment shall be awarded as per the scheme given below.

Table-XI:Schem	e for awardi	ng internal a	assessment:	Continuous mode
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Theory					
Criteria	Max	Maximum			
	Ma	Marks			
Attendance (Refer Table – XII)	4	2			
Academic activities (Average of any 3 activities e.g. quiz, assignmen	t, 3	1.5			
open book test, field work, group discussion and seminar)	5	1.0			
Student – Teacher interaction	3	1.5			
Total	10	5			
Practical					
Attendance (Refer Table – XII)	2				
Based on Practical Records, Regular viva voce, etc.	3				
Total	5	5			

Table- XII: Guidelines for the allotment of marks for attendance

Percentage of Attendance	Theory	Practical
95 - 100	4	2
90-94	3	1.5
85 - 89	2	1
80 - 84	1	0.5
Less than 80	0	0

11.2.1. Sessional Exams

Two Sessional exams shall be conducted for each theory / practical course as per the schedule fixed by the college(s). The scheme of question paper for theory and practical Sessional examinations is given below. The average marks of two Sessional exams shall be computed for internal assessment as per the requirements given in tables – X.

Sessional exam shall be conducted for 30 marks for theory and shall be computed for 15 marks. Similarly Sessional exam for practical shall be conducted for 40 marks and shall be computed for 10 marks.

Question paper pattern for theory Sessional examinations

For subjects having University examination

I. Multiple Choice Questions (MCQs)	=	$10 \ge 1 = 10$
OR		OR
Objective Type Questions (5 x 2)	=	$05 \ge 2 = 10$
(Answer all the questions)		
I. Long Answers (Answer 1 out of 2)	=	$1 \ge 10 = 10$
II. Short Answers (Answer 2 out of 3)	=	$2 \ge 5 = 10$
	Total =	30 marks

For subjects having Non University Examination			
I. Long Answers (Answer 1 out of 2)		=	$1 \ge 10 = 10$
II. Short Answers (Answer 4 out of 6)		=	4 x 5 = 20
	Total	=	30 marks
Question paper pattern for practical sessional examined	nations		
I. Synopsis		=	10
II. Experiments		=	25
III. Viva voce		=	05
	Total	=	40 marks

12. Promotion and award of grades

A student shall be declared PASSand eligible for getting gradein a course of B.Pharm.program if he/she secures at least 50% marks in that particular course including internal assessment.For example, to be declared as PASS and to get grade, the student has to secure a minimum of 50 marks for the total of 100 including continuous mode of assessment and end semester theory examination and has to secure a minimum of 25 marks for the total 50 including internal assessment and end semester practical examination.

13. Carry forward of marks

In case a studentfails to secure the minimum 50% in any Theory or Practical course as specified in 12,then he/she shall reappear for the end semester examination of that course. However his/her marks of the Internal Assessmentshallbe carried overand he/she shall be entitled for grade obtained by him/her on passing.

14. Improvement of internal assessment

A studentshall have the opportunity to improve his/her performance only oncein the Sessional exam component of the internal assessment. The re-conduct of the Sessional exam shall be completed before the commencement of next end semester theory examinations.

15. Re-examination of end semester examinations

Reexamination ofend semester examinationshall be conducted as per the schedule given in table XIII. The exact dates of examinations shall be notified from time to time.

Tuble 2111. Tenutive senedule of end senester examinations			
Semester	For Regular Candidates	For Failed Candidates	
I, III, V and VII	November / December	May / June	
II, IV, VI and VIII	May / June	November / December	

Table-XIII: Tentative schedule of end semester examinations

Question paper pattern for end semester theory examinations

For 75 marks paper			
I. Multiple Choice Questions(MCQs) OR	=	20 x 1 OR	= 20
Objective Type Questions (10 x 2)	=	10 x 2	= 20
(Answer all the questions)			
II. Long Answers (Answer 2 out of 3)	=	2 x 10	= 20
III. Short Answers (Answer 7 out of 9)	=	,	= 35
Total	=		arks
For 50 marks paper			
I. Long Answers (Answer 2 out of 3)	=	2 x 1	0 = 20
II. Short Answers (Answer 6 out of 8)	=	6 x 5	= 30
Total	=	0011	
For 35 marks paper			
I. Long Answers (Answer 1 out of 2)	=	1 x 1	0 =10
II. Short Answers (Answer 5 out of 7)	=		= 25
Total	=		arks
Question paper pattern for end semester practic	cal exa	aminatio	
I. Synopsis		=	5
II. Experiments		=	25
III. Viva voce		=	
	Tota		35 marks

16. Academic Progression:

No student shall be admitted to any examination unless he/she fulfills the norms given in 6. Academic progression rules are applicable as follows:

A student shall be eligible to carry forward all the courses of I, II and III semesters till the IV semester examinations. However, he/she shall not be eligible to attend the courses of V semester until all the courses of I and II semesters are successfully completed.

A student shall be eligible to carry forward all the courses of III, IV and V semesters till the VI semester examinations. However, he/she shall not be eligible to attend the courses of VII semester until all the courses of I, II, III and IV semesters are successfully completed.

A student shall be eligible to carry forward all the courses of V, VI and VII semesters till the VIII semester examinations. However, he/she shall not be eligible to get the course completion certificate until all the courses of I, II, III, IV, V and VI semesters are successfully completed.

A student shall be eligible to get his/her CGPA upon successful completion of the courses of I to VIII semesters within the stipulated time period as per the norms specified in 26.

A lateral entry student shall be eligible to carry forward all the courses of III, IV and V semesters till the VI semester examinations. However, he/she shall not be eligible to attend the courses of VII semester until all the courses of III and IV semesters are successfully completed.

A lateral entry student shall be eligible to carry forward all the courses of V, VI and VII semesters till the VIII semester examinations. However, he/she shall not be eligible to get the course completion certificate until all the courses of III, IV, V and VI semesters are successfully completed.

A lateral entry student shall be eligible to get his/her CGPA upon successful completion of the courses of III to VIII semesters within the stipulated time period as per the norms specified in 26.

Any student who has given more than 4 chances for successful completion of I / III semester courses and more than 3 chances for successful completion of II / IV semester courses shall be permitted to attend V / VII semester classes ONLY during the subsequent academic year as the case may be. In simpler terms there shall NOT be any ODD BATCH for any semester.

Note: Grade ABshould be considered as failed and treated as one head for deciding academic progression. Such rules are also applicable for those students who fail to register for examination(s) of any course in any semester.

17. Grading of performances

17.1. Letter grades and grade points allocations:

Based on the performances, each student shall be awarded a final letter grade at the end of the semester for each course. The letter grades and their corresponding grade points are given in Table – XII.

	8	1	
Percentage of Marks Obtained	Letter Grade	Grade Point	Performance
90.00 - 100	0	10	Outstanding
80.00 - 89.99	А	9	Excellent
70.00 - 79.99	В	8	Good
60.00 - 69.99	С	7	Fair
50.00 - 59.99	D	6	Average
Less than 50	F	0	Fail
Absent	AB	0	Fail

 Table – XII: Letter grades and grade points equivalent to

 Percentage of marks and performances

A learner who remains absent for any end semester examination shall be assigned a letter grade of ABand a corresponding grade point of zero. He/she should reappear for the said evaluation/examination in due course.

18. The Semester grade point average (SGPA)

The performance of a student in a semester is indicated by a number called 'Semester Grade Point Average' (SGPA). The SGPA is the weighted average of the grade points obtained in all the courses by the student during the semester. For example, if a student takes five courses(Theory/Practical) in a semester with credits C1, C2, C3, C4 and C5 and the student's grade points in these courses are G1, G2, G3, G4 and G5, respectively, and then students' SGPA is equal to:

SGPA =
$$\begin{array}{c} C_1G_1 + C_2G_2 + C_3G_3 + C_4G_4 + C_5G_5 \\ \hline C_1 + C_2 + C_3 + C_4 + C_5 \end{array}$$

The SGPA is calculated to two decimal points. It should be noted that, the SGPA for any semester shall take into consideration the F and ABS grade awarded in that semester. For example if a learner has a F or ABS grade in course 4, the SGPA shall then be computed as:

19. Cumulative Grade Point Average (CGPA)

The CGPA is calculated with the SGPA of all the VIII semesters to two decimal points and is indicated in final grade report card/final transcript showing the grades of all VIII semesters and their courses. The CGPA shall reflect the failed statusin case of F grade(s),till the course(s) is/are passed. When the course(s)is/are passedby obtaining a pass grade on subsequent examination(s) theCGPA shall only reflect the new grade and not the fail grades earned earlier. The CGPA is calculated as:

CGPA = $C_{1}S_{1} + C_{2}S_{2} + C_{3}S_{3} + C_{4}S_{4} + C_{5}S_{5} + C_{6}S_{6} + C_{7}S_{7} + C_{8}S_{8}$ $C_{1} + C_{2} + C_{3} + C_{4} + C_{5} + C_{6} + C_{7} + C_{8}$

where C_1, C_2, C_3, \dots is the total number of credits for semester I,II,III,... and S_1, S_2, S_3, \dots is the SGPA of semester I,II,III,....

20. Declaration of class

The class shall be awarded on the basis of CGPA as follows:

First Class with Distinction	= CGPA of. 7.50 and above
First Class	= CGPA of 6.00 to 7.49
Second Class	= CGPA of 5.00 to 5.99

21. Project work

All the students shall undertake a projectunder the supervision of a teacher and submit a report. The area of the project shall directly relate any one of the elective subject opted by the student in semester VIII. The project shall be carried out in group not exceeding 5 in number. The project report shall be submitted in triplicate (typed & bound copy not less than 25 pages).

The internal and external examiner appointed by the University shall evaluate the project at the time of the Practical examinations of other semester(s). Students shall be evaluated in groups for four hours (i.e., about half an hour for a group of five students). The projects shall be evaluated as per the criteria given below.

Evaluation of Dissertation Book:		
Objective(s) of the work done		15 Marks
Methodology adopted		20 Marks
Results and Discussions		20 Marks
Conclusions and Outcomes		20 Marks
То	tal	75 Marks
Evaluation of Presentation:		
Presentation of work		25 Marks
Communication skills		20 Marks
Question and answer skills		30 Marks
То	tal	75 Marks

Explanation: The 75 marks assigned to the dissertation book shall be same for all the students in a group. However, the 75 marks assigned for presentation shall be awarded based on the performance of individual students in the given criteria.

22. Industrial training (Desirable)

Every candidate shall be required to work for at least 150 hours spread over four weeks in a Pharmaceutical Industry/Hospital. It includes Production unit, Quality Control department, Quality Assurance department, Analytical laboratory, Chemical manufacturing unit, Pharmaceutical R&D, Hospital (Clinical Pharmacy), Clinical Research Organization, Community Pharmacy, etc. After the Semester – VI and before the commencement of Semester – VII, and shall submit satisfactory report of such work and certificate duly signed by the authority of training organization to the head of the institute.

23. Practice School

In the VII semester, every candidate shall undergo practice school for a period of 150 hours evenly distributed throughout the semester. The student shall opt any one of the domains for practice school declared by the program committee from time to time.

At the end of the practice school, every student shall submit a printed report (in triplicate) on the practice school he/she attended (not more than 25 pages). Along with the exams of semester VII, the report submitted by the student, knowledge and skills acquired by the student through practice school shall be evaluated by the subject experts at college leveland grade point shall be awarded.

24. Award of Ranks

Ranks and Medals shall be awarded on the basis of final CGPA. However, candidates who fail in one or more courses during the B.Pharm program shall not be eligible for award of ranks.Moreover, the candidates should have completed the B. Pharm program in minimum prescribed number of years, (four years) for the award of Ranks.

25. Award of degree

Candidates who fulfill the requirements mentioned above shall be eligible for award of degree during the ensuing convocation.

26. Duration for completion of the program of study

The duration for the completion of the program shall be fixed as double the actual duration of the program and the students have to pass within the said period, otherwise they have to get fresh Registration.

27. Re-admission after break of study

Candidate who seeks re-admission to the program after break of study has to get the approval from the university by paying a condonation fee.

No condonation is allowed for the candidate who has more than 2 years of break up period and he/she has to rejoin the program by paying the required fees.

ACADEMIC CALANDER AS PER UNIVERSITY(JNTU-GV) GUIDELINES

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY - GURAJADA - VIZIANAGARAM

VIZIANAGARAM - 535 003, Andhra Pradesh (India)

(Established by Andhra Pradesh Act No. 22 of 2021)

Lr No: JNTUGV/DAP/AC/ IV year/ B.Tech/ B.Pharmacy/2022-23

Date: 21-09-2022

Dr. K. ChandraBhushana Rao M.E. Ph.D

Professor of Electronics and Communication Engineering Director i/c, Academic and Planning,

To

All the Principals of affiliated colleges, JNTUGV- Vizianagaram

Academic calendar of IV year B.Tech/ B.Pharmacy for the AY: 2022-23 (2019-20 Admitted Batch)

IS	EMESTER	Contraction of the second	
Description	From	To	Weeks
Commencement of Class Work	04.07.2022		
I Unit of Instruction	04.07.2022	27.08.2022	8W
I Mid Examinations	29.08.2022	03.09.2022	1W
II Unit of Instructions	05.09.2022	29.10.2022	8W
II Mid Examinations	31.10.2022	05.11.2022	1W
Preparation &.Practical's	07.11.2022	12.1 1.2022	1W
End Examinations	14.11.2022	26.11.2022	2W
Commencement of II Semester Class Work	05.12.2022		
II	SEMESTER		
I Unit of Instruction	05.12.2022	28.01.2023	. 8W
I Mid Examinations	30.01.2023	04.01.2023	1W
II Unit of Instructions	06.01.2023	01.04.2023	8W
II Mid Examinations	03.04.2023	08.04.2023	1W
Preparation &.Practical's	10.04.2023	15.04.2023	1W
End Examinations	17.04.2023	29.04.2023	2W

DAP I/c, JNTUGV

Copy to the secretary to Hon'ble Vice Chancellor, JNTUGV Copy to Registrar, JNTUGV Copy to Director i/c, Academic Audit, JNTUGV Copy to Director i/c, Evaluation, JNTUGV



PRINCIPAL Avanthi Institute of Pharmaceutical Sciences Cherukupally (V), Bhogapuram Mandal Vizianagaram Dt., - 531162

INTERNAL THEORY EXAMINATION ASSESSMENT



II B Pharmacy II Sem I MID Examinations PCI, May-2023

Subject: Pharmacology-I

Branch: B Pharmacy

Time: 120 min.

Max. Marks: 30 M

Date of exam: 13/05/2023

S. No	Questions	Blooms Taxonomy Level	Course Out Come	Marks		
Answer any ONE question						
1.	Define biotransformation and write about the factors affecting rate of the absorption.	Apply understand	CO1	10		
2.	Explain about neurohumoral transmission in detail.	Remember apply	CO2	10		
Answer any TWO questions						
3.	a) Classify & Explain pre-anaesthetics.b) Classify centrally acting muscle relaxants.	Understand apply	CO1	05		
4.	Classify General Anaesthetics and explain its Mechanism of action any one of the drugs	Apply understand	CO2	05		
5.	Define the following terms given below a) Drug b) Toxicology c) Pharmacy d) Chrono biotics e) Chrono pharmacology	Remember apply	CO3	05		



DAI

Avanthi Institute of Pharmaceutical Sciences Cherukupally (V), Bhogapuram Mandal Vizianagaram Dt., - 531162

X. Rohim Signature of the faculty



II B Pharmacy II Sem I MID Examinations PCI, May-2023				
Subject: Pharmacology-I		Branch: B Pharmacy		
Time: 120 min.	Max. Marks: 30	Date of exam: 13/05/2023	3	
	Scheme of Eva	aluation		
1) Define biotransformation and	write about the facto	ors affecting rate of the absorption.	10M	
i. Definition of b	oiotransformation:3M			
ii. Factors affectin	ng rate of the absorpt	ion:7M		
2) Explain about neurohumoral t	ransmission in detail		10M	
5 Steps involved in	n transmission proces	ss – Each step 2 M		
3) a) Classify & Explain pre- and	esthetics		5M	
Definition: 1M				
Classification & de	tail note on any drug	: 1.5M		
b) Classify centrally acting m	uscle relaxants			
Definition: 1M				
Classification & de	tail note on muscle re	elaxants: 1.5M		
4) Classify General Anesthetics and explain its Mechanism of action any one of the drugs				
Definition: 1M				
Classification: 1M	(
Mechanism of dru	ig: 3M			
5) Define the following terms gi	ven below a) Drug	b) Toxicology c) Pharmacy	5M	
d) Chrono biotics e) Chrono ph	narmacology			
Each Definition of	the term – 1M			



PRINCIPAL

K. Rohini Signature of the faculty

Avanthi Institute of Pharmaceutical Sciences Cherukupally (V), Bhogapuram Mandal Vizianagaram Dt., 531162 Avanthi Institute of Pharmaceutical Sciences

AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES



(Approved by A.I.C.T.E, P.C.I, New Delhi, Recognized by the Govt. of A.P. & Affiliated to JNTU-GV, Vizianagaram) Cherukupally (Village), Chittivalasa (SO), Bhogapuram (Mandal), Vizianagaram (Dist) -531162. www.avanthipharma.ac.in, principal@avanthipharma.ac.in

II B Pharmacy II Sem I MID Examinations PCI, May-2023					
	Subject: Pharmacology-I		Branch: B Pharm	acy	
	Time: 20 min.	Iax. Marks: 10	Date of exam: 13/05/2	2023	
		Objecti	ve		
1.	1. The fraction of drug that reaches	s the systemic circula	ation is called	(a)	
	a) Biotransformation b) Bioavail	ability c) Bioequivalence	e d) Biopharmaceutics		
2.	2. Arrange the stages of general an	aesthesia		(b)	
			anesthesia-stage of Medullary paral		
			naesthesia- stage of medullary paraly		
			paralysis-stage of surgical anesthesis		
3	3. One of the following drug is closed		paralysis-stage of surgical anesthesia	(d)	
0.	a) Diazepam b) Chlorzoxazone			(u)	
4.				(a)	
	a) Phenobarbitone b) Carbamaz	-		(a)	
5.				(d)	
	-) Osteomalacia-hypoclacemia d) All		
6.				(b)	
	a) Phenobarbitone b) Ethoxysuc	ccimide c) Valproic ac	id d) Diazepam		
7.	7. The process of secretion of subst	tances from cells is k	nown as	(c)	
	a) Endocytosis b) Chemotaxis c	e) exocytosis d) Necros	sis		
8.	8. The uptake of glucose by cells is	a process occurs by		(c)	
	a) Active transport b) Passi	ive transport c) Facilita	ated diffusion d) Carrier mediated	l transport	
9.	9. The inhibitory neurotransmitters	are		(a)	
	a) GABA, Glycine b) Gluta	amate, Aspartate c) do	pamine, 5HT		
10	10. The Father of Pharmacology is -			(c)	
	i. Rudolph Bucheim b) Francois M	Magendie c) Oswald S	chmiedeberg d) Samuel Hahnem	ann	

K. Rohini Signature of the Faculty

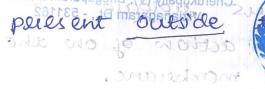


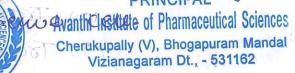
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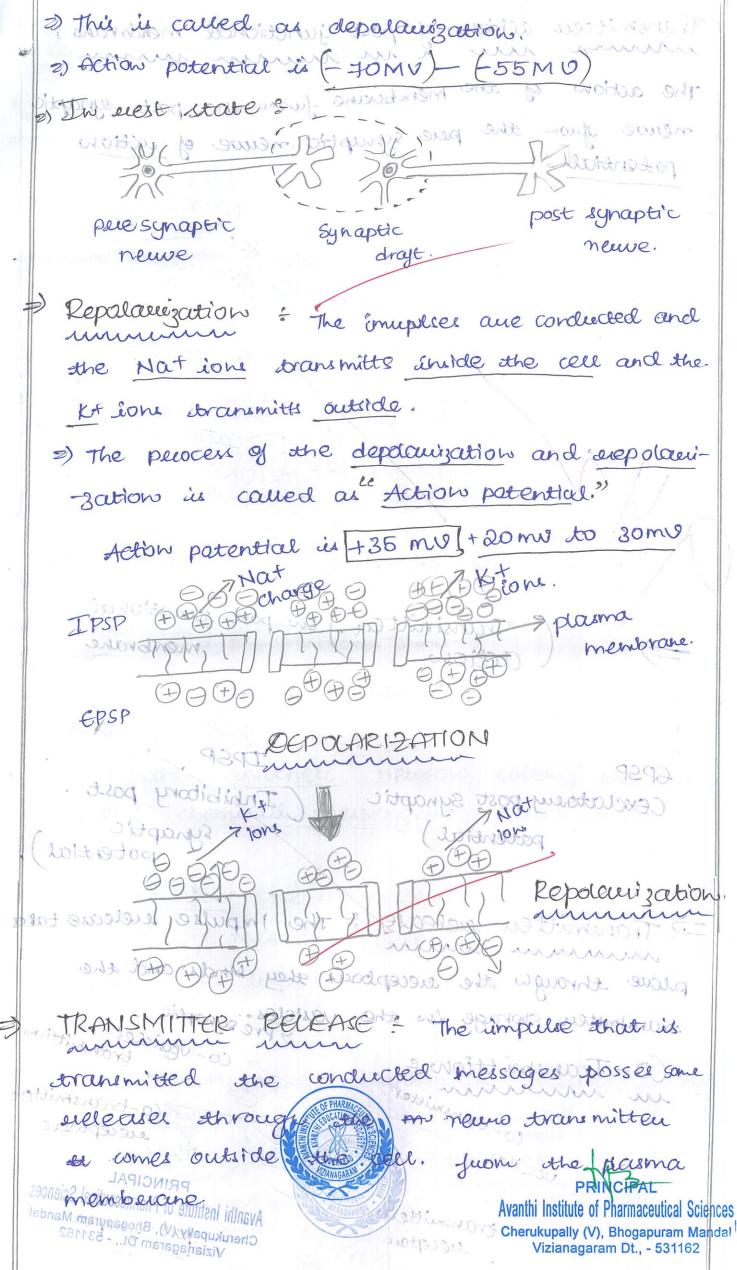
(4) post junctional activity. Uso . **AVANTHI TE OF PHARMACEUTICAL SCIENCES** Cherukupally (V), Near Tagarapuvalasa Bridge, Vizianagaram (Dist.) A.P. - 531162. (Approved by AICTE, PCi & Govt.of A.P. Affiliated to JNTUK, Kakinada) **SUBJECTIVE TEST** ESTD : 2005 (1) Impulse conductions: The delet stade the. Date JNTUK Reg. No. : 13-05-2023 T51R0002 21 Soft Year W 100 Student Name Sem 9= Silvizound: mid-1 · A Ramya : B. Pharm / Pharm D. (P.B) / M. Pharm Joinston words Branch : B. Phasmacy. Specialization Time :2hrs Pharmacalogy. Subject Name **Total Marks** : 19 Marks Secured .: 19 JADTA State at Sto Invigilators Signature : is no actions seen and no impul CONCLESS (1) ANSWER ANSWER ANY ONE OF THE FOLLO FOLLOWING : at is - tomy NEUROHUMORAL TRANSMISSION 2015 5 manne man concentration > Not sove froming the high Never Never Never Neverone -64 and autide of cell and they paksel, and have Hunderal --> chemical messengers. It positive charges on them plasma mento > The perocess in which the transmittion of messages (ou) signs juon one neuve to the another newson with the help of the chemical messengeus / new transmitti-- on I The firstly neuro messengers impulses the impulses / messages and the storage of the nerver signe impulses are stored in the Vasicles abins the newes woits and low The Memohumanal pronsmittions occurs for the five ways :newe PRINCIPAL a pression of the Internet of Pharmaceutical Sciences PRINCIPAL

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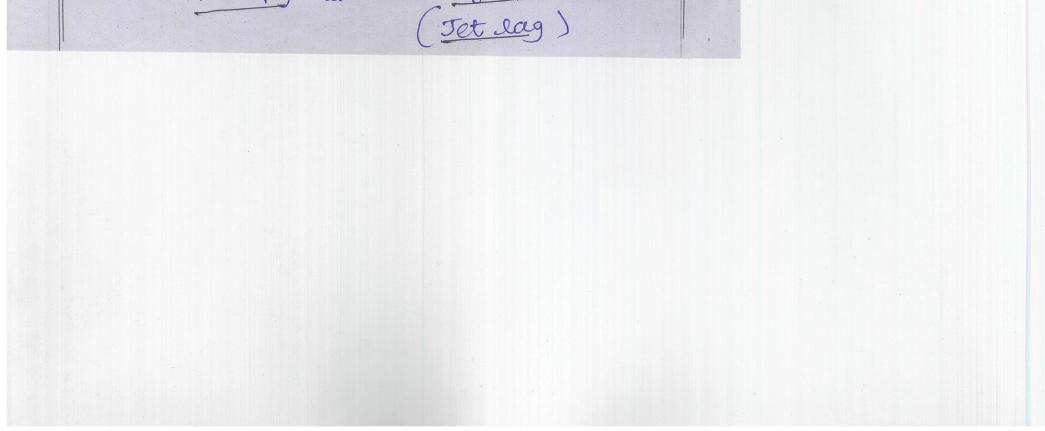




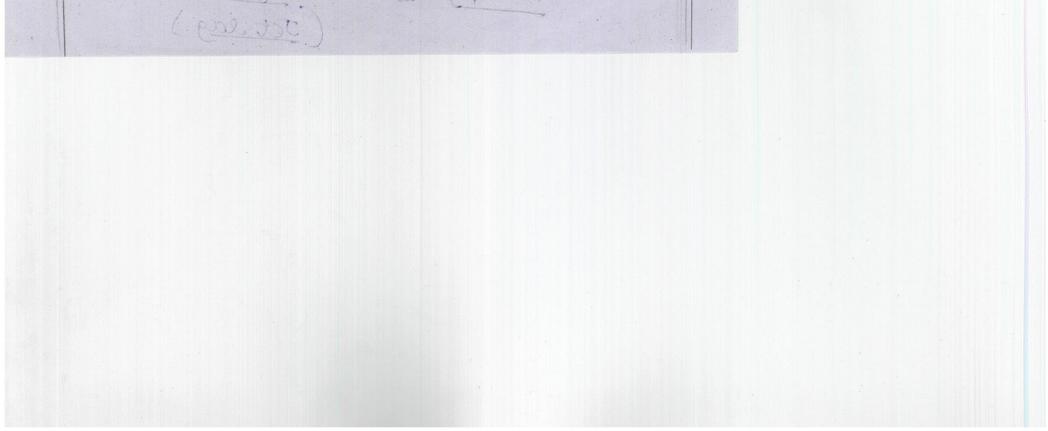
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= chronotherapy = Theraccpy of the treat -ment to set and modify the changes in ascadium eighten biological clock 23 , any securing : The day head " is greek word. ANTI- EPILEPTIC ABIENTS := The anti-epilep-12 tic agents, and used to control the sissors trestates that explaines and deterministration 2) To stop the epilepsils. Monor of trubance ⇒ Baubiturates ⇒ Phenobaubiturates, netsbaubiturates, wixor (d) polsionow stude Deoxybauditurates 1 pyeramedoen into out Hydantocn => phenotan, jox phenotan. and preasment => Iminostillabean => oxycadiozepene, carbinazepine 3) Succinanciale =>) Choxysuccinancile. collection a =) benzonydiazepines =) di azepeano, chlorodiazoperano, =) Puerification = durigs. 2) Chatomo The is weed to the set of (D) Chaonobiotus : ununun the ciscadiam. adaptaris the modely throwing Spalaid. PRINCIPAL upally (V), Hbogsfüram his C Avanthi Institute of Pharmaceutical Science. Vizianagaram St. - 531162 Cherukupally (V), Bhogapuram Manda Vizianagaram Dt., - 531162 Escado am tracetment and starty ap sufferen " thereperticated. deals with the therapy in the right scepters.



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Avanthi Institute of Pharmaceutical Sciences

II B. Pharmacy II Sem I MID Examinations

Subject: Pharmacology-I OBJECTIVE

Marks: 10M

(h)

(6)

(a)

(a)

(d)

a

1. The fraction of drug that reaches the systemic circulation is called

a) Biotransformation b) Bioavailability c) Bioequivalence d) Biopharmaceutics

2. Arrange the stages of general anaesthesia

a) Stage of Delirium-Stage of Analgesia- stage of Surgical anesthesia-stage of Medullary paralaysis

b) stage of analgesia- stage of delirium- stage of surgical anesthesia- stage of medullary paralysis

c) stage of analgesia- stage of delirium-stage of medullary paralysis-stage of surgical anesthesia

d) stage of delirium-stage of analgesia-stage of medullary paralysis-stage of surgical anesthesia

3. One of the following drug is clonidine congener central α_2 adrenergic agonist

a) Diazepam b) Chlorzoxazone c) Methocarbamold) Tizanidine

4. The drug which has both antiepileptic& sedative-hypnotic activity

a) Phenobarbitone b) Carbamazepine c) Vigabatrin d) Phenytoin

5. The major adverse effect observed with Phenytoin

Time: 20mins

a) Gum hyper atrophy- Idiosyncrasy b) Nystagmus-Acne c)Osteomalacia-hypoclacemia () All of the above

6. The drug that mainly acts on modifying calcium currents

a) Phenobarbitone b) Ethoxysuccimide c) Valproic acid d) Diazepam

7. The process of secretion of substances from cells is known as

a) Endocytosis b) Chemotaxis c) exocytosis d) Necrosis

8. The uptake of glucose by cells is a process occurs by

a) Active transport b)Passive transport c) Facilitated diffusion d) Carrier mediated transport

9. The inhibitory neurotransmitters are

a) GABA, Glycine b) Glutamate, Aspartate e) dopamine, 5HT



Avanthi Institute of Pharmaceutical Sciences

II B. Pharmacy II Sem I MID Examinations Subject: Pharmacology-I

Time: 90mins	SUBJECTIVE	Marks: 20M
I Answer any two	in i caoléss antil a suite	2x10=20M
1. a) Classify & Explain p	re- anesthetics (5M)	

b) Classify centrally acting muscle relaxants (5M)

2. Classify General Anesthetics and explain its Mechanism of action any one of the drug (5M)

3. a) Drug b) Toxicology c) Pharmacy d) Chronobiotics e) Chronopharmacology

Classify anti-epileptic agents. 4.

II Answer any one of the following

1X10 = 10M

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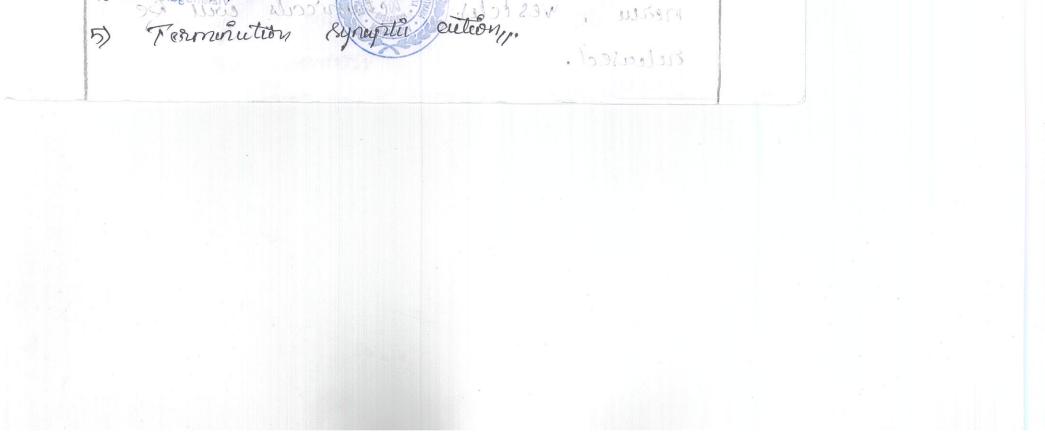
4. Define biotransformation and write about the factors affecting rate of the absorption.

5. Explain about neurohumoral transmission in detail. and the state of the longest of the second state of the second sta

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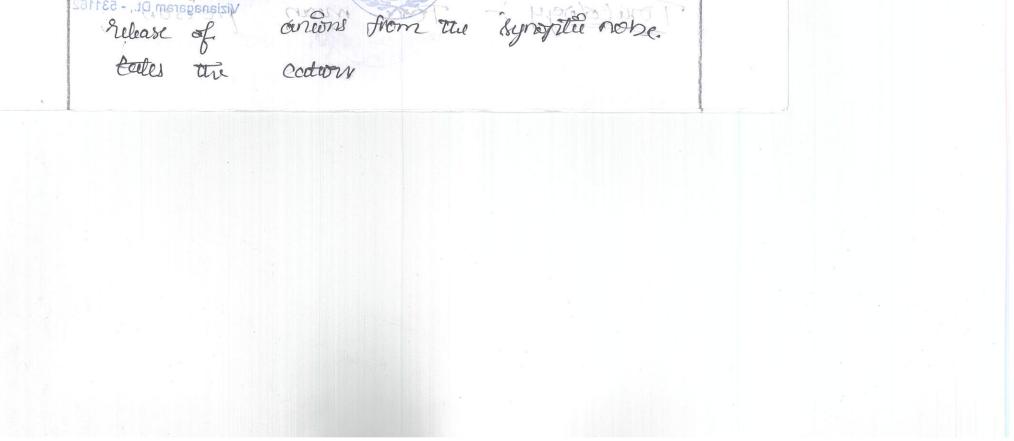
AVANTHI ENCES INSTITUTE PHA OF Cherukupally (V), Near Tagarapuvalasa Bridge, Vizianagaram (Dist.) A.P. - 531162. (Approved by AICTE, PCi & Govt.of A.P. Affiliated to JNTUK, Kakinada) 1 SUBJECTIVE TEST and how why 17.15 ESTD: 2005 JNTUK Reg. No. : Date Mon 5 C **Student Name** Year : Jugear Sem sem S. Memileanta : B. Pharm / Pharm D. / Pharm D. (P.B) / M. Pharm **Branch** CON50 Time : B. Phonmary 29)57 **Specialization** : Phormacology **Subject Name** BUD CTotal Marks DIG **Invigilators Signature :** Marks Secured 109 61) GI leuro humoral Mansmission Constant 5) Thensmission messice of 1 ransfer nerile to conother -One formation er 201mas 20101 the 11012 merue. "SADAL motor w sensory nerle organ. affector the to 10 7 Cri 6003 1 noch 1 nala transmission Neurohundral They cire Pleice ち COMPANYOU 10 001044 Conclution es Sim LIMPLECE 2 ennercel Norman PRINCIPAL dui Avanthi Institute of Pharmaceutical Sciences un 3 Cherukupally (V), Bhogapuram Mandal Vizianagaram Dt., - 531162 culion aun Dest adynaptic 3)



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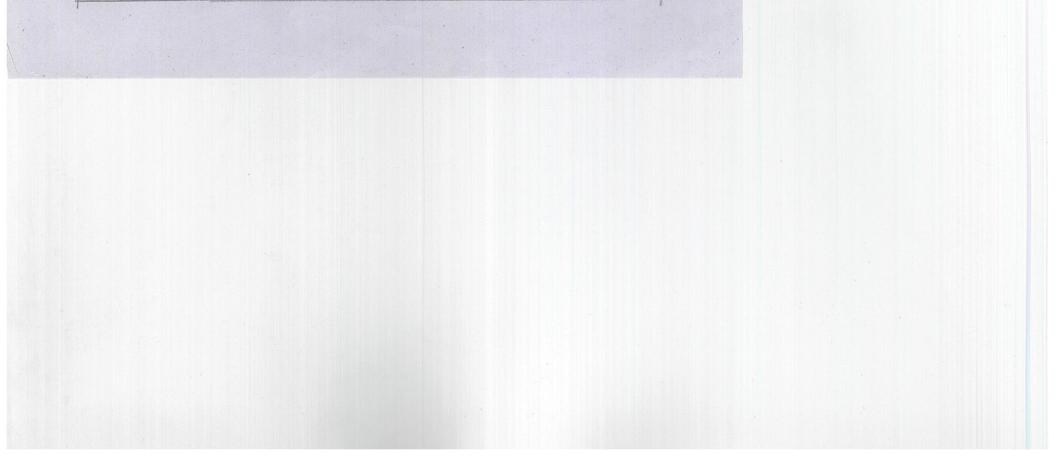
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Time: 90mins	II B. Pharmacy II Sem I Subject: Pharmacology SUBJECTIVE	I I Contrate di anti di Anti di A
Answer any two	1 vgolosianie	2x10=20M
	pre- anesthetics (5M)	
	acting muscle relaxants (51	
		echanism of action any one of the drug (5M)
a) Drug b) Toxicolog	y c) Pharmacy d) Chrono;	biotics e) Chronopharmacology
I. Classify anti-epilept	ic agents. Administration havenus h	s 21558 - muitribb fur easter - the annual to the beneficient
I Answer any one of t	he following	0.01111 + 100010 to $0.01X10 = 10M$
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(Approved by A.I.C.T.E, P.C.I, New Delhi, Recognized by the Govt. of A.P. & Affiliated to JNTU-GV, Vizianagaram) Cherukupally (Village), Chittivalasa (SO), Bhogapuram (Mandal), Vizianagaram (Dist) -531162. www.avanthipharma.ac.in, principal@avanthipharma.ac.in

II B Pharmacy II Sem II MID Examinations PCI, May-2023

Subject: Pharmacology-I

Branch: B Pharmacy

Time: 120 min.

Max. Marks: 30 M

Date of exam: 06/07/2023

S. No	Questions	Blooms Taxonomy Level	Course Out Come	Marks		
Answer any ONE question						
1.	Define Receptor? Classify receptors and explain in brief about G protein coupled receptors?	Apply understand	CO4	10		
2.	Classify Parasympathomimetic and explain in detail about any one drug?	Remember apply	CO5	10		
Answer any TWO questions						
3.	a) Classify Anti-depressants?b) Classify sympathomimetics?	Understand apply	CO3	05		
4.	a) Classify Antipsychotics?b) Classify skeletal muscle relaxants(peripheral)?	Apply understand	CO4	05		
5.	a. Classify Local anaesthetics?b. Classify CNS stimulants?	Remember apply	CO5	05		

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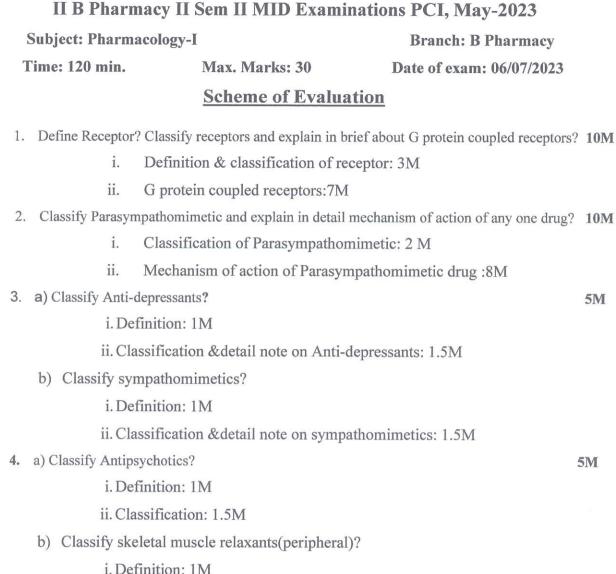
Avanthi Institute of Pharmaceutical Sciences Cherukupally (V), Bhogapuram Mandal Vizianagaram Dt., - 531162

K. Rohini

Signature of the faculty



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- ii. Classification & detail note on muscle relaxants(peripheral): 1.5M
- 5. a. Classify Local anaesthetics?
 - i. Definition: 1M
 - ii. Classification & detail note on Local anesthetics: 1.5M
 - b. Classify CNS stimulants?
 - i. Definition: 1M
 - ii. Classification & detail note on CNS stimulants: 1.5M

K. Kolin Signature of the faculty



ESTD - 200

Avanthi Institute of Pharmaceutical Sciences Cherukupally (V), Bhogapuram Mandal Vizianagaram Dt., - 531162

ESTD : 2005

	II B Pharmacy II Sem II MID Examinations PCI, May-2023					
	Subject: Pharmacology-I Branch: B Pharmac	у				
	Time: 20 min. Max. Marks: 10 Date of exam: 06/07/202	3				
	Objective					
1)	Pilocarpine is used for a. Paralytic ileus b. Urinary retention c. Glaucoma d.All of the above	(c)		
2)	Which is the most important drug in the treatment of organophosphate poisoning	(а)		
	a. Atropine sulfate b. Diazepam c. Adrenaline d. Pralidoxime					
3)	The following is a proven human teratogen	(а)		
	a. Warfarin sodium b. Chloroquine c. Dicyclomine d. Methyldopa					
4)	A receptor which is itself has enzymatic property is	(а)		
	a.Insulin receptor b. Glucagon receptor c. Thyroxine receptor d.kinase receptor					
5)	Which of the following is a prodrug	(b)		
	a. Captopril b. Enalapril c. Clonidine d. Hydralazine					
6)	Intradermal drug sensitivity tests can detect the presence of following hypersensitivity		pe a	of)		
	a. TypeI b. Type II c. TypeIII d. Type IV					
7)	The cardiac muscarinic receptors	(b)		
	a. M_1 subtype b. M_2 subtype c. M_3 subtype d. None of the above					
8)	The following secretions is not secreted by Acetylcholine	(с)		
	a. Pancreatic juice b. Tear c. Bile d. Sweat					
9)	Select the longer acting beta blocker	(b)		
	a. Carvedilol b. Levobunolol c. Betaxolol d. Timolol					
10)	The most effective antidote for belladonna poisoning	(b)		
	a. Neostigmine b. physostigmine c. Pilocarpine d. Methacholine					



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K. Rohini

ALOCELDAN JUMARIA AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES EN Cherukupally (V), Near Tagarapuvalasa Bridge, Vizianagaram (Dist.) A.P. - 531162. (Approved by AICTE, PCi & Govt.of A.P. Affiliated to JNTUK, Kakinada) SUBJECTIVE TES ESTD: 2005 :06/07/23 **JNTUK Reg. No.** : 2 5 0 Date : chigurmalasa Karthik Year: **Student Name** Sem EII: Branch : B. Pharm / Pharm D. / Pharm D. (P.B) / M. Pharm and Acetychown : B pharmacy Lecondyear Specialization Time pharmacology with Subject Name **Total Marks** (tre Invigilators Signature: V. Der **Marks Secured** following questions ghe de aprilieng Samp 201116 KREN anaesthetisa Receptor General the about Le som txplaining thetisa it 19m general araes anaesthetisa: body unea General the receptors of the making the Sending the processes 0k the sensation and and loss of the sti Sesous sends the costs which chemical transmitter to Central to the lesponses and mulations 37 bacasper body making the System of process of anaesthetisa Ut kelp ful for the General which were unconsesources body particular deceptor of the body the the 2 type divided in to Suggeres liquid closage forme are PRINCIPAL evit antrampreside of Pharmaceutical Science Cherukupally (V), Bhogapuram Mandal Dwb The to the Mylaianagaram Dt., - 531162 assifed Solid are the Has au anaesthetisa and the groups Gene groups stage V. different , stage TV 5 LOF PHARMAR kni



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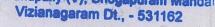


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Avanthi Institute of Pharmaceutical Sciences

II B. Pharmacy II Sem II MID Examinations

Subject:Pharmacology -I OBJECTIVE

Time: 20mins

- Pilocarpine is used for a.Paralytic ileus b. Urinary retention c.Glaucoma d.All of the above
- 2) Which is the most important drug in the treatment of organophosphate poisoning (O)
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 - a. Warfarin sodium b. Chloroquine c.Dicyclomine d. Methyldopa
- 4) A receptor which is itself has enzymatic property is
 - a.Insulin receptor b. Glucagon receptor c. Thyroxine receptor d.kinase receptor
- 5) Which of the following is a prodrug
 - a. Captopril b.Enalapril c.Clonidine d. Hydralazine
- 6) Intradermal drug sensitivity tests can detect the presence of following type of (0,)
- a. TypeI b. Type II c. TypeIII d. Type IV
- Vizianagaram DL 53/162 7) The cardiac muscuranic receptors
 - a. M_1 subtype b. M_2 subtype c. M_3 subtype d. None of the above
- 8) The following secretions is not secreted by Acetylcholine
 - a.Pancreatic juice b. Tear c. Bile d. Sweat
- 9) Select the longer acting beta blocker
 - a. Carvedilol b. Levobunolol c. Betaxolol d. Timolol
- 10) The most effective antidote for belladonna poisoning
 - a. Neostigmine b.physostigmine s Puocarpine d.Methacholine
- e PRINCIPAL Ava thi Institute of Pharmaceutical Sciences Cherukupally (V), Bhogapuram Mandal Vizianagaram Dt., - 531162

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Marks: 10M

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AVANTHI PHARMACEUTICAL SCIENCES INSTITUTE OF Cherukupally (V), Near Tagarapuvalasa Bridge, Vizianagaram (Dist.) A.P. - 531162. (Approved by AICTE, PCi & Govt.of A.P. Affiliated to JNTUK, Kakinada) **SUBJECTIVE TEST** ESTD : 2005 Kluebbe 2 06 07 22 JNTUK Reg. No. : Date 8 : MID-11 **Student Name** Sem Siyyadri. Pushpalathe Year : : B. Pharm / Pharm D. / Pharm D. (P.B) / M. Pharm **Branch Specialization** : 2 hour : B. pharmacy Time : pharmacology - I Subject Name **Total Marks** Invigilators Signature : V . Der **Marks Secured** 21 Questions: - (1×10=10M) J. Inswer following Receptor: - Receptor compound (, Ans ",that a. US our body at a Grey cell tha en with dug Receptor used for Binding +0 the. function Per form Action Receptor Urug Complex Receptors : Cation vede class? Kecep ¥ The Suto Sir P1 A PR warre 29000 RPI PRINCIPAL

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phosphorylasy the protene, callens and other motecules and these process causes the cell Structule. BY AB ASAIDS 2) phospholiphase C/IP3, DAG pathway". In phospholiphase c pathway the stimulation of Secondary messanger IP3, DAG in the! cell menbelane phosphozonacitol pathicon phosphate (PIP3). the IP3 on Pincreasest Cattor Pourst in the cell, the calcium Ions used bar the seasection. The phospholiphase used if for the metabolises of proverise and acts as for the cell youdion the cooperage & bus of it the plasma' memberar store cell memberone to nistory -2 (Ac) secondary messarger. GS Freuen and electer opathicay. Emp Puside the bot ATP ADPar ATP Serges. The secondary may Ca++ Coll hyperet is some mator and camp potender in inderry Alway the Secondary mellenge. adde Protein essistion of secondary massar sur turopin Avanthi **Avanthi Avanthi Avant** PRINCIPAL

vanthi Institute of Pharmaceutical Sciences Cherukupally (V), Bhogapuram Mandal Vizianagaram Dt. - 531162



21 JAIR0089 G-protein coupled seceptoes a) sdenyly! grdatenerunue as - Guinine Stimulation at pathway any a Gs-stimulator action poblic of a a: = Inhibitery actions ensits pried mod schings, etc. a acitors also Autopeosont lies phosphalipase cand IPs, DAG pathway; -> The stimulation of Secondary mellayer increases the Cat fous in the cell. -> The calcium over used for the seconation, i Rueger og metabolism af dal e elleren ? phospholipase C/IP3 × DAG pathway. Rale Hardi Judi depression (PIP3 (a) elig 2 Ab A PLC ATP APP when No Ilson DA Ggi 2 . explicition que PK.C Juside the Catt inteacellular sative, sedative fielder allos Protein Secration, etty) metabolism 09:692:99 NCIPAL ell and institute of Pharmaceutical Sciences naceutical Science Cherukupally (V), Bhogapuram Mandal c...erukupally (V), Bhogapuram Mandal Vizianagaram Dt., - 531162 Vizianagaram Dt., - 531162



Jusues the following Questions (2×5-1009) TP: Answer Be - Guiriane Eternulation 3, AU Aufidepressants: => The Antidepressants was the causual Casing disease. by the contains illness, mood Susings, etc. -> Antidepressants was caused by the law Here containt the amount of Amides in bue Rody Cola, SHT, depandine, etc) . classification of Antidepressants: i Reversible inhabitors of MAD (RIM) phospholipase c/3P3 x DAG i, TCA +> Tricy die Enhebitors and depressants A dA/SHT Recap Inhabitors :-TPA 194 Bi 1 Predominant alt Inder Recup Inhibitors. . 5.79 At shipip Cat 9 ilsace Millar Selective sedative Receptor Inhabit in SSRI Protory iv, Autidepressout Inhibitory tum PRINCIPAL PRINCIPAL Institute of Pharmaceutical Sciences Avanthi Institute of Pharmaceutical Sciences C. erukingally (V), Bhogapuram Mandal Vizian**agaram Dt., - 531162** Cherukupally (V), Bhogapuram Mandal Vizianagaram Dt., - 531162



Avanthi Institute of Pharmaceutical Sciences

II B. Pharmacy II Sem II MID Examinations

Subject:Pharmacology -I OBJECTIVE

Marks: 10M

(C)

 (\mathbf{A})

(B)

(C)

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- Pilocarpine is used for a.Paralytic ileus b. Urinary retention c.Glaucoma d.All of the above
- 2) Which is the most important drug in the treatment of organophosphate poisoning (
 - ra. Atropine sulfate b. Diazepam c. Adrenaline d. Pralidoxime
- 3) The following is a proven human teratogen

Time: 20mins

- a. Warfarin sodium b. Chloroquine c.Dicyclomine d. Methyldopa
- 4) A receptor which is itself has enzymatic property is
 - a.Insulin receptor b. Glucagon receptor c. Thyroxine receptor d.kinase receptor
- 5) Which of the following is a prodrug
 - a. Captopril b.Enalapril c.Clonidine d. Hydralazine
- 6) Intradermal drug sensitivity tests can detect the presence of following type of hypersensitivity for the presence of following type of
 - a. TypeI b.Type II c. TypeIII d. Type IV
- 7) The cardiac muscuranic receptors
 - a. M_1 subtype b. M_2 subtype c. M_3 subtype d. None of the above
- 8) The following secretions is not secreted by Acetylcholine
 - a.Pancreatic juice b. Tear c. Bile d. Sweat
- 9) Select the longer acting beta blocker
 - a. Carvedilol b. Levobunolol c.Betaxolol d. Timolol
- 10) The most effective antidote for belladonna poisoning.
 - a. Neostigmine b.physostigmine c. Priocarpine d. Methacholine

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ESTD : 2005

Cherukupally (Village), Chittivalasa (SO), Bhogapuram (Mandal), Vizianagaram (Dist.) -531162. www.avanthipharma.ac.in, principal@avanthipharma.ac.in

Consolidated Internal Marks Statement

Branch : II B Pharm II Sem (Academic Year 2022-2023)

Subject : Pharmacology-II

Subject Code : **BP404T**

Faculty : MissK.Rohini

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2	21T51R0002	19	9	28	14	4	2	2	8	22	17	10	27	14	4	2	3	9	23	23
3	21T51R0003	17	9	26	13	4	3	3	10	23	16	10	26	13	4	2	3	9	22	23
4	21T51R0004	18	9	27	14	4	2	2	8	22	15	10	25	13	4	3	3	10	23	23
5	21T51R0005	16	10	26	13	4	3	3	10	23	15	10	25	13	4	3	2	9	22	23
6	21T51R0006	18	9	27	14	3	2	3	8	22	16	10	26	13	4	3	1	8	21	22
7	21T51R0007	18	9	27	14	3	2	2	8	22	16	10	26	13	4	3	3	10	23	23
8	21T51R0008	18	9	27 .	14	4	2	3	9	23	15	10	25	13	4	3	2	9	22	23
9	21T51R0009	18	9	27	14	4	2	3	9	23	16	10	26	13	4	3	2	9	22	23
10	21T51R0010	18	9	27	14	4	2	2	8	22	17	10	27	14	4	3	3	10	24	23
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Vizianagaram Dt., - 531162

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AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

(Approved by A.I.C.T.E, P.C.I, New Delhi, Recognized by the Govt. of A.P. & Affiliated to JNTU-GV, Vizianagaram)

Cherukupally (Village), Chittivalasa (SO), Bhogapuram (Mandal), Vizianagaram (Dist.) -531162.

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21T51R0013	16	9	25	13	4	3	3	10	23	15	10	25	13	4	3	1	8	21	22
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21T51R0015	0	0	0	0	4	3	3	10	10	0	10	10	0	4	3	3	10	10	10
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93	21T51R0094	18	9	27	14	4	1	1	R	20	A SOLE	9	26	13	PRIN	harmaceut	ical Scie	nces7	20	20

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***TSI: Teacher student interaction**

****SA: Student Activities**





Exam in-charge

PRINCIPEIpal

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Display of Internal Marks during Academic Year 2022-2023 Branch: II B Pharm II Sem

S No	Reg. No	*Pharmaceutical Organic Chemistry- III(BP401T)	*Medicinal Chemistry- I (BP402T)	*Physical Pharmaceutics -II (BP403T)	*Pharmacology- I (BP404T)	*Pharmacognosy & Phytochemistry- I (BP405T)	*Medicinal Chemistry I (BP406P)	*Physical Pharmaceutics -II (BP407P)	*Pharmacology -I (BP408P)	*Pharmacognosy Phytochemistry - I (BP409P)
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53	21T51R0053	20	23	22	20 TE OF PHARM	21	14		CIPAL ¹³	13
54	21T51R0054	22	23	23	C AND A CANADA	22	14	vanthi Institute of	Pharmaceutical Scie	nces 13

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60	21T51R0061	23	24	21	20	21	14	13	13	13
61	21T51R0062	23	24	21	21	21	14	15	13	13
62	21T51R0063	22	23	22	22	22	14	14	14	13
63	21T51R0064	23	23	24	21	22	13	14	13	13
64	21T51R0065	15	23	20	20	20	14	14	13	13
65	21T51R0066	22	23	21	21	21	14	15	13	13
66	21T51R0067	21	23	23	20	22	14	14	13	13
67	21T51R0068	22	23	21	21	21	14	14	13	13
68	21T51R0069	24	24	20	20	20	14	13	13	13
69	21T51R0070	15	23	21	21	21	14	14	13	13
70	21T51R0071	20	23	21	22	21	13	14	13	13
71	21T51R0072	20	10	23	20	21	14	14	13	13
72	21T51R0073	20	23	22	20	21	14	14	13	14
73	21T51R0074	22	23	21	21 OF PHARMAC	21	14	14 th	pl 13	13
74	21T51R0075	15	23	21		22	14 Avar	thi Institlife of Pha	rmaceutieal Science	\$ 13

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75	21T51R0076	23	23	23	20	21	14	14	13	14
76	21T51R0077	22	23	21	20	21	14	15	13	14
77	21T51R0078	22	23	23	21	22	14	15	13	14
78	21T51R0079	24	24	21	22	21	14	14	13	13
79	21T51R0080	20	23	20	20	20	14	15	13	13
80	21T51R0081	24	23	24	20	22	14	14	13	14
81	21T51R0082	24	23	21	21	21	14	13	13	13
82	21T51R0083	21	24	22	20	21	14	14	13	13
83	21T51R0084	19	22	21	20	21	14	14	14	13
84	21T51R0085	20	23	22	21	21	9	14	13	13
85	21T51R0086	15	22	22	20	21	14	14	13	14
86	21T51R0087	19	22	24	22	23	14	15	13	14
87	21T51R0088	22	23	24	21	22	14	14	13	14
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90	21T51R0091	23	24	23	20	21	14	14	14	13
91	21T51R0092	20	23	10	21	16	14	5	9	5
92	21T51R0093	20	23	22	22	22	14	14	14	13
93	21T51R0094	22	23	23	20	22	14	14	13	13
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95	21T51R0096	20	23	21	A STATEMAN	SOCIET 121	¹ Avanthi	Institute of Pharm	aceutical ¹ Sciences	13

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96	21T51R0097	14	16	22	23	22	8	14	13	14
97	21T51R0098	22	22	24	21	22	14	15	13	14
98	21T51R0099	20	23	21	20	20	14	13	14	13
99	21T51R00A0	19	23	20	21	21	14	14	13	13
100	21T51R00A1	16	17	21	20	20	14	14	13	13
101	21T51R00A2	22	23	21	21	21	14	14	13	13
102	21T51R00A3	21	23	21	20	20	14	15	13	13
103	21T51R00A4	23	23	22	22	22	14	14	14	13
104	21T51R00A5	22	24	22	20	21	14	15	13	13
105	21T51R00A6	22	23	24	19	22	8	15 .	13	13
106	20T51R0069	18	22	21	20	20	14	14	13	13
107	22T55R0001	22	24	20	21	21	14	14	14	13
108	20T51R0017	20	23	10	21	16	14	14	14	13

* Average marks of two internal theories & lab examinations

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Exam in-charge Sign

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Avanthi Institute of Pharmaceutical Scienceskupally (V), Bhogapuram Mandal Vizianagaram Dt., - 531162

ASSIGNMENT-1 : ch. Deepthi Name 21T51R0019 ROLINIO : B. phaem Ind year class : phaemaeology-I Subject : centrally acting muscle relaxants Topie Submitted TO : Roheni Mam. & Polici PRINCIPAL Avanthi Institute of Pharmaceutical Sciences Cherukupally (V), Bhogapuram Mandal Vizianagaram Dt., - 531162

Centrally Acting Muscle Relaxants:-These dugs act on higher centers and cause muscle relaxation without loss of consciousness. They also have sedative properties. Drugs: Diazepan, Baclofen, mephenesin, Tizanidine Mechanism of action: Centrally acting muscle relaxants depress the spinal polysynaptic efferces. There refleres maintain the muscle tone. By depressing these spinal reflexes, centrally acting muscle relaxants reduce the musile tone. Centrally Acting relarants depress Spinal poly synaptie reflexes uflexes maintain muscle relaxants seduce lone the musile tone fully PRINCIPAL Avanthi Institute of Pharmaceutical Sciences Cherukupally (V), Bhogapuram Mandal Vizianagaram Dt., - 531162

Diazepami

Diazepan has useful antisepartie activity. it can be used in selieving muscle sparm of almost any oligin including socal muscle trauma.

Baclofen :

Baclofen is an analog of the inhibitory neucotransmittee GIABA. it is a GIABAB agonist. it depress the monosympatic and polysympatic reflexes in the spinal coid. it relieves painful sparms including flexos and Extensol sparms and may also improve bladdes and bawel functions is patients with spinal cerions. Normal tendon reflexes are not offected

Bactopen is generally gives stally. it should be gradually with deaver after prolonged we because about with deawl can cause provide patient of the and half using the station of the are half using the station of the Drowsiners, weakners and Ataxia. Mephenesin:

Mephenesin is not preferred due to its ride Effects. A number of related dugs like carisoprodol, metho carbamol, chlotzoxa zone are used in acute muscle sparm caused my local trauma. All of them also cause sedation. Tizaridine:

Tizanidine is a congenie of clonidine. it is a central 2 agoniit like clonidine it incleases presynaptic inhibition of motor neurons and uduces muscle spann. it is used in the treatment of sparticity due to stoke, multiple sclevoris and amyoteopic lateral scheoris other centrally acting manolylic agents include eiluzole, gabapentin and progabile Ribuxole has both presynaptic and port Bynaptie Effert st inhibit glutamale PRINCIPAL IS. release in Avanthi Institute of Pharmaceutical Sciences Cherukupally (V), Bhogapuram Mandal

Vizianagaram Dt., - 531162

it is well tolerated with minor adver Effects like maneea and diarehoea. it is read to reduce sparticity in anyo - tropie lateral sclerovis. uses! 1) obthopedie produces like feacture reduction may me done after administering deazepan 2) ECT Diazepan is given along neith preipher - cally acting SMRs. 3) Tentamis d'azypam is given " 1) spartie neurological disordus like cerebral palsy, mutliple sclerovis, poliomyelitis, himiplegia, and quadraplegia are treated with diazepan (a) baclofen. PRINCIPAL Avanthi Institute of Pharmaceutical Sciences Cherukupally (V), Bhogapuram Mandal Vizianagaram Dt., - 531162

Assignment - 1

Name : M. Rani Roll No : 21T51R0054 Subject : phone acting ruycle Julanants. CONTSE : B-phone acting

subritted To: Rohuni Man

K. Robini



PRINCIPAL Avanthi Institute of Pharmaceutical Sciences Cherukupally (V), Bhogapuram Mandal Vizianagaram Dt., - 531162 and twoy also improve bladder and bowel functions in patients with spinal legions. Mostrial tendon sufferes are not affected.

Boelober is generally grun orally. It should be gradually with drawal can cause anxiety. pulpitations on hallecinations.

- Side effects are drowyiney, waterey on atomia.

Heplungin: is not preferred due to its side effects. A number of velated drugs like conisopriodol, ruthe carband, chilosocone are used in acute ruscle spager caused by local trauma. All of them also easy sedation.

Uses & centurally Acting ruycle Julanants.

- ruyculoskeletal dijordurs like ruycle staans, spaans, ruyalgia, corvical root syndromes, herniated dijc syndromes, low boulgache, distocatrons PRINCIPAL Avanthi Institute of Pharmaceutical Sciences: bucherurupally (M, Bhogapuram Mandal Vizianagaram Dt., - 531162 Centurally Acting Muycle Julaxants:

These drugs act on higher centures and cause truscle subaration without loss of consciousness. They also have sedative properties.

Mechanism de Action :

Centrally acting Muscle rulements dipress the Spinol polysynaphic rulemes. By dypressing they spinol rultenez, Centrally acting twycle rulements ruduce the twycle tone.

Diazepan: hos yribul antispaytic activity. It can be Und to stationing tuycle sport of altrost any oxigin. induding local tuycle trauria. (\$.

Budofen: is an anolog of the inhibitory neurotrians

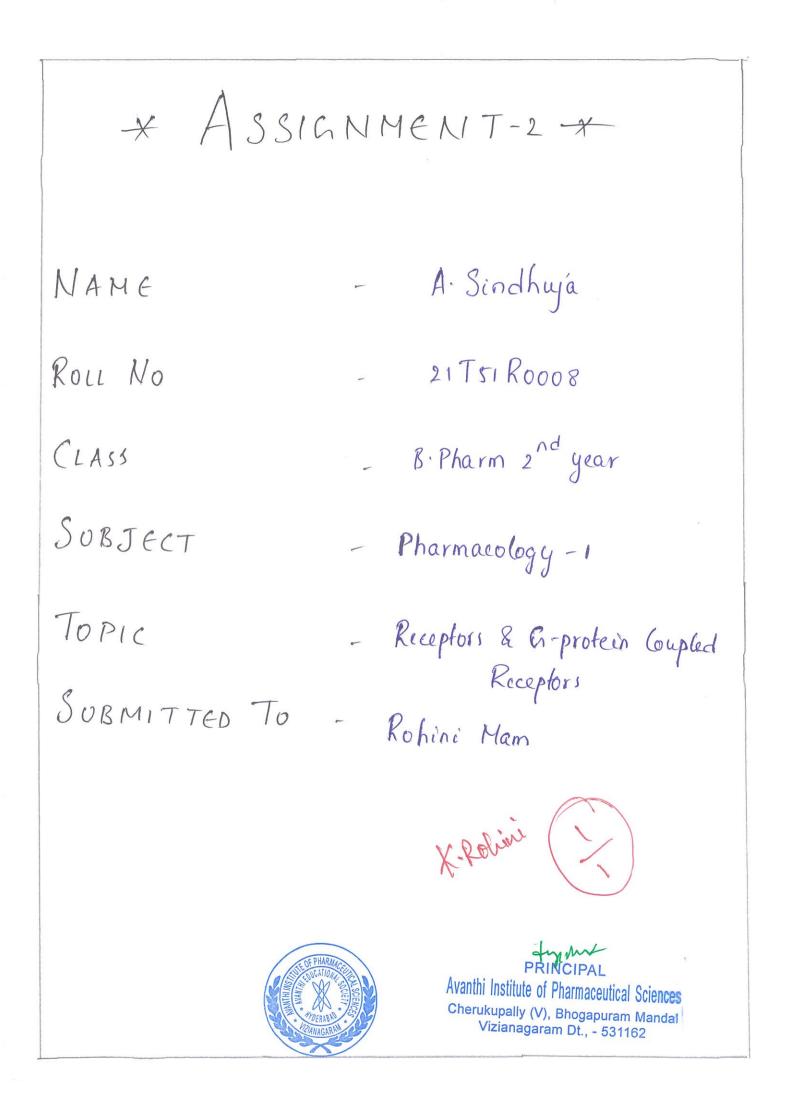
- Miller GABA. ut is a GABAB agonist. It

dipresses the tionosynophic and polysynoptic

Ju Henejes the pharmappinal cord. If 10 Spoyms. indu

Covd. It stilleus poin but PRINCIPAL Avanthi Institute of Pharmaceutical Sciences Cherukupally (V), Bhogapuram Mandal Vizianagaram Dt., - 531162

poinbul ruycle sports. ruycle Julanamte are und with anodysics in these. spartic neurological deporders like combral perloy, multiple sclerusis, polioryelitis, lumipligia and quadriplegia are truated with diazopan 31 baclofen. tetany plazepart is given iv. PAI Avanthi Institute of Pharmaceutical Sciences Cherukupally (V), Bhogapuram Mandal Vizianagaram Dt., - 531162



Receptor :-

A Receptor is a macromolecular site on the cell with which an agonist binds to bring about a change Functions of Receptors. The functions of Receptors are= * Kecognition & binding of the ligard * Propagation of the Message. Types of Keceptors' 1) Ion channels (ionotropic receptor) 2) G-protein coupled receptors (metabotropic receptor) 3) Enzymatile Receptors (kinase linead receptor) 4) Nuclear Receptors (Transcription factors or receptors that regulate gene Franscription). -> G - Protein Coupled Receptors They are proteins spanning the plasma membrane. The bound to the inner face of the plasma G-proteins are membrane. The G-proteins consist of three subunits - x, p & ? When a ligand birds to the Cr-protein coupled receptor, the associated Crprotein Ale Reported. This wanth Institute of Pharmeter Cherukupally (V), Bhogapuram Mandal Vizianagaram Dt., - 531162

adeny l'cyclase or phospholepase C to generate the respective second mussengers. These second messengers system are called effector pathways. Ci-proteins acting through secondary messingers bring about a chain of intracellular changes. Thus G-prokins act as a link or mediator between the receptors & the effector systems. They are called G-proteins because of their interaction with the guarine nucleotides, GTP & GDP. Gprokins are of different clases like Gs, G, Ga, Go & Gis - Gis is stimulatory & Gi is inhibitory. The second mossengers include CAMP, IP3, DAG, Gtt '8 c'GMP. Adrenergive receptors &. mascariner cholinergic receptors are examples of Ci-profein Coupled Receptors. Effector pathways through which the Crprotein Coupled Receptors work are -) Adenyl Cyclese (CAMP pathway > Phospho lupese C / IP3 - DAG pathway -1 Ion Channel Receptors regulation Adenyl Cyclase pathway a. Stimulation of adenat cyclap results, in the formation & accumulation of the Pharmaceutical Sc Cherukupally (V), Bhogapuram Mandal Vizianagaram Dt., - 531162

through protein kinases which phosphorylate various proteins to regulate the cell function. The response may be contraction, relaxation, lipolysis or hormone synthesis. Phospholipase C/IP3 - DAG pathway: Activation of Phospholipase C wull in the formation of second messengers IP3 & DAG from the membrane phospholipids phospho ionositol pyrophosphate (PIP2) . IP3 mobilised Cat+ mediates responses like susction, contraction metabolism & hyperpolarisation. DAG activates protein which regulates all fenctions kinase C Ion Channel Regulation .-The activated G-proteins can directly convey the signal to some ion channels causing opening & closing of the channels. The resulting response include depolarisation & hyperpelarisation



PRINCIPAL Avanthi Institute of Pharmaceutical Sciences Cherukupally (V), Bhogapuram Mandal Vizianagaram Dt., - 531162

ASSIGNMENT-2 NAME - M. SAILAJA ROLLNO: 21TSIROOSI CLASS :- B. Pharm 2nd year SUBJECT :- Pharmacology-1 TOPIC :- Receptors & it types, - Gr-protein Couple receptor SUBMITTED TO - Rohini Madam



PRINCIPAL Avanthi Institute of Pharmaceutical Sciences Cherukupally (V), Bhogapuram Mandal Vizianagaram Dt., - 531162

K-Robini (OF

Receptor:-A receptor is a macromolecular site on the cell with which an against birds to bring about a change. Functions of Receptors: The two functions of receptory are '-· Recognition and binding of the ligand. · propagation of the message Types of Receptors :-" Ion channels (icontropic receptor) 2. 61-protein coupled suppor constabatropie receptor). 3. Enzymatic receptor (kinase linked receptor). 4. Nuclear receptor (7 ransport factor) 67 - protein coupled receptors: These are proteins spinning the plasma memberare. The bi-proteins Consist 07 three suburits i.e a, B, Y. This is turn activates Ly chase c=lo generate the aderey !! PRINCIPAL respective se cond Avanthi Institute of Pharmaceutical Sciences Cherukupally (V), Bhogapuram Mandal Vizianagaram Dt., - 531162

These second messenger system are called effector pathways. They are called & - prating because of their interaction with quarine nuel - eatides, GTP and GDP, G - prating are of different classes like 613, 61, 610, 610, and 6113. se cond messenger include camp, 1P3 , DAG, The Catt and CGIMP. Effector pathways through which there 61-protein coupled receptory work are:-- Adenyleyclase / camp pathway. - Phospholipage CAP3- DAG pathway. - I on channel regulation. Ad engligt updase pathway:stimulation of adenyloyclase results the formation and accumulation of en CAmp within the cell. The response may Contration, relaxtion, lipolysis or be ho more systheses PRINCIPAL Avanthi Institute of Pharmaceutical Sciences Cherukupally (V), Bhogapuram Mandal Vizianagaram Dt., - 531162

Chinika I realized

phosphalipase c/IP3 - DAG pathway:-Activation of phospholipase c results the formation of second messenger IP3 in and DAG from the membrane phosphalipids insited phyrophosphate (PIP2). DAG activates phospho Kinose cubich regulates cell function. and I ron channel regulation :-The activated Gi-proteins can directly convey the signal to some ion channels Causing opening , elosing to channels. The depolavization hyperpolarisation.



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INTERNAL LAB EXAMINATION ASSESSMENT



II B Pharmacy II Sem Lab internal I Examinations PCI, May-2023 Name of the Subject: Pharmacology - I Time: 180 min Max. Marks: 40 M Date of exam: 25/05/2023

I.	Synopsis	10M
	Define neurotransmission & explain brief about neurotransmitters.	
II.	Major experiment	15M
	Perform the Mydriatic or Miotic effect of the given drugs on rabbit eye and rep	ort its
	activity	
III.	Minor Experiment	10M
	Perform the study of different route of administration in mice	
IV.	Viva-voce	5M

K. Rolin Signature of the Faculty



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AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES Cherukupally (V), Near Tagarapuvalasa Bridge, Vizianagaram (Dist.) A.P 531162. (Approved by AICTE, PCi & Govt. of A.P. Affiliated to JNTUK, Kakinada) SUBJECTIVE TEST
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Branch : D. Fharm D. / Fharm D. / Fharm D. (I.D)/ W. Fharm
Specialization · D protection
Marks Secured : 33 191 Provide 6 Invigilators Signature :
1. Define Neurotransmission Explain in blief
1. Define Aleurotransmission Explain in brief about neurotransmitteur.
El. Major Eup.
Effect noting on tabbit of
in Mind enp. Study of different souter of administration. In mice.
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Avanthi Institute of Pharmaceutical Sciences in PRINCIPAL Avanthi Institute of Pharmaceutical Sciences in Cherukupally (V), Bhogapuram Mandal Vizianagaram Dt., - 531162
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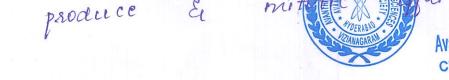
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· 17 . Majol Experiment. Aimi To study the effect of mydriates & miotic effect on rabbit eye. Requisementer Rabbit; Droper; Drug soln. L. Millasi Proceoliciei f put sabbit in such away that ahead Will be product producing Vehicle Until drug soin blinking of eyes. In still the drug soin. Then study the effect after Smin. Mote the size of pupil response to light & torch. March Exp Mechanium: pupit of eye is délated by paralysis of parasympathie tetic stimulation the circular muscle filie of inis contact & due to sympathetic stimulation contracte the sa dicle musque fibre miosis can occur due to stimulation of nerve occulomotal nerve of Psritation of sympathetic Nerver Discusion 1--> pikocaspinnang officerty acting parasympatheti Cherukuyaliy (V), Bhogapuram Manus Vizianagaram Dt., - 531162 - 4m9 p.p Atvo carpin blocks the mucarnic seceptols hence sympathetic system predominatols. Kepolt: Atropine, spinephrine & spidumi produces mejobiater etter physostigmine lever ten



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* ?1).

Minor Eup

dim: To study the onset of duration of action in mice/rat when give by different route of administration.

Requisementi: - Animals - Mice/ Rat Prug - phenobar bitone; sodium diasepam

Equipment -

The Onset & duration of action of a drug depend on soute of administration for Example when a drug is given by I.V soute the effect is seen instancously as compared to & sout of administration of drug when it takes up to heavy on how to slow the effect

Procedureit

weight the animal no them by marking 1) 2) Orunding them into 3 deops each conisting of 3 drops to 3 mice rate

3) Administrate the drug to animal. group through oral route.

4) rote the time of inj & time of onset of sleep when animal is sleep placed it as a position in Which animal sleep keep in black at bottom.

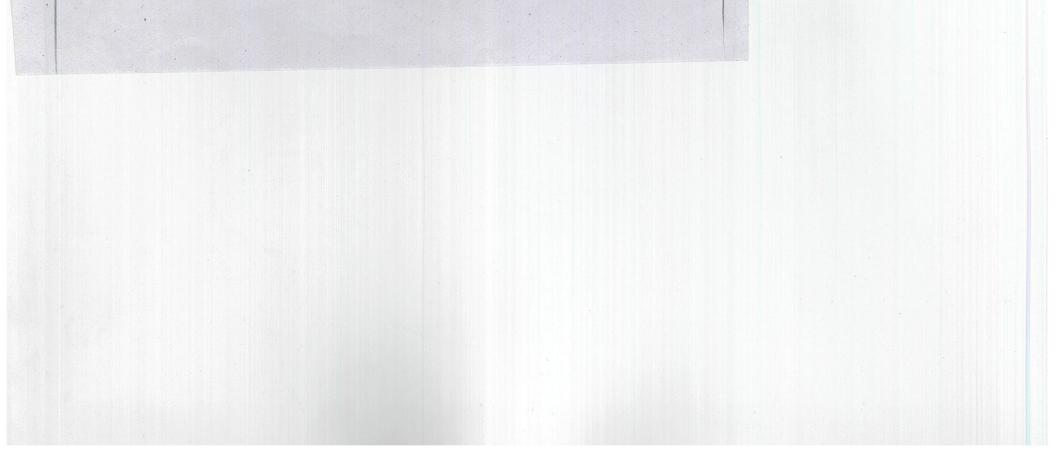
6) Note recovery for action & sleep duration by south south of PRINCIPAL administration of Pheno barby apply institute of the mateuital science Cherukupally (V), Bhogapuram Mandal Vizianagaram Dt., 531162 administration

Reporter In Irv route of daug Produce quick on set of action & short duration N>Sm> SD> SC> 0801 2015 N> Im> Sp> Sc> Oral route

g. synopsu 120156 10 treasure transmal. sincepte May-Nemo transmission is degulated by several factors : the availability different synthesis of the neuro the release of that State E taansmitter, neuro transmettes, the bareline activity of the post synaptic cell, the no of gieceptols for arraitable post synaptic the neuro transmission to blind to and subsequent in 100 specifaloze d Strenetures ... au Flie 6 D.Sp. Ferri Stages: rallect the neuro transmitte -) scipthesi of the place in the cell books anon, or in the anon take can many the ternénal. Momentaryo - initrance. -) storage of the necustransmitter En storage granules of Mesicles resides en the anon terminal.) calceum enters the, anon terminal during an action potential, causing neuro transmitter into and of a re the of pharmace selease the synaptic Avanthi Institute of Pharmaceutical Sciences bincli to El activation a succeptor in the post snaptic membrane.



-) cotransmission is the stelease of neuotsansmitters serveral types 01 herve teminal. single from a Neturo Examstantasion siggettetted bij -> at the nerve terminal neuro trans-Present within 35-50 nm - mitters are Mesicles called niembrane - encased 1914 MASMIDK - synaptic Vesicles Exandin's MESS RECLED 10 051 FL.C.E. neuro transmitten, 10 Aclease -> 10 signaptic resicces transpentle the dock & first at the base OK 9,34: specialized 10-15 cm cup- shaped Structures. at the Lipo protein Stages called presejnaptic membrane e prollees th polosomes . 190 En Hae -33.00 j Citycine cos sulese. MOD. CLABA) Dopamine - citutamate CO Helease. -> Acetyl choline intestin al Ach- rearbactine sterage 513 peptide velease. 519 100 releated calcitonin gene in ech (a) differe release mon OL22 peptide olicing -dyn norphi n Spical C Cilletam Pn hľ construction constructions the construction of Cherykupally (V), Ehogapuram Manda Vizianagaram Df., - 531162 Avanthi Institute of Pharmaccutical Sciences Cherukupally (V), Bhogapuram Mandal (330103313) Vizianagaram Dt., - 531162 D. 13 of while i combleress : in the post smapt



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II B Pharmacy II Sem Lab internal II Examinations PCI, May-2023 Name of the Subject: Pharmacology - I

Time: 180 min Max. Marks: 40 M Date of exam: 07/07/2023

Synopsis I.

Classify the general anaesthetics and explain about stages of anaesthesia.

II. **Major** experiment

> Perform Anticonvulsant effect of drugs by MES & PTZ methods and report the anticonvulsant effect for the given drugs.

III. **Minor Experiment**

Perform the Effects of drugs on locomotor activity using actophotometer and report the locomotor activity.

IV. Viva-voce

PRINC

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10M

15M

5M

10M

K. & phine Signature of the Faculty

PM :	11. major Experiment i
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JNFUK Reg. No.): 2011 TT 5 PRIO 0	A gontosis Dater - Celamin 10-7-2023
Student NameP: Sree P'yyour)YoBranch: B. Pharm / Pharm D. / Pharm D. (Pharm D.)	ear: 2nd Sem : Lab Internal-I
	is protlar Timepid privip 3 bas
Subject Name : phorma cology fire sitger Marks Secured : 35	
I. Synopsis :- 40 10 marks 8	+14+8+5
O classifiq General of Analsthetics	And explain about stages of ab bro estates stages of
3 maint expression 15 martines	-) After 30 min, place the
Anti- consultant effect of doug	by MES and 2. P. T. Zin method
IT minor Experiment not 10 martin	-1 Smmediately possue dur
Effect of dougs on locomot	convulsions in each m
IV Vivabore 20 Simalstandre 20	Compart the Survetion
	quoi plontries rittie quorp
	Réport :-
for rate is decreased by the	The conversive snoce
vone morphoner, so , prompton	
	anti- convilsant activity.
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Charukyeniy (V), Shoqapuram Mandal	- Jume
TOTAL CALL	Avanthi Institute of Pharmaceutical Sciences Cherukupally (V), Bhogapuram Mandal Vizianagaram Dt., - 531162



T. major Experiment i-

> Aim: - To evaluate anti-epileptic activity of the doug using maximum electro convulsive shock seizuge method.

Requirements :- The electro convulsimeter, phenytoin (2I mg/kg). Lab Internal-I principle: - The convulsion is rat (mile) can be induced by giving high voltage averent hear the brain. The Sciening of the arti-epileptic agent and Procedure ?

5+3+41+8 Www.3 Siggined . C Jueigh, mark and Suicide, the animals into 2 groups. -) Administer while and drug to the spective group, -) After 30 min, place the compalear electrode on the on corners and apply 50 ml for 0.2 seconds is given to effect of doing by MES and 210 minonellial tradelina - that -) Immediately observe duration of tonic and clonic onin convulsions in each marge

stanatoric compare the duration of reaction fine of test group with control group.

1-27.3

Report -

Z

The convulsive shock for not is decreased by the phenytoin. when compared to whicle, so, phenytoin show ant, - convelsant activity.



ute of Pharmaceutical Sciences Cherukupally (V), Bhogapuram Mandal Vizianagaram Dt., - 531162



III. Minor - Experiment i-

Aim: To study about actophotometer.

principle: - most of the cross acting dougs influence the locomotor activities in man and animals, the cross dependent dougs such as barbiturales, alcohol, oreduce (a) decrease motor activity, while the stimulants activity in other woods locomotor the activity can be alternate of mental activity.

To locomotor activities which operates on photoelectric like which are connected in circuit with amentwhen beam of light falling on photocells is acts off could have either circular (as Square area in which animals man both soit and mice may be used for performing this experiment.

Uses : -

the uses of central nenous depressant property of the "chiosophomanine" on locomotor activity of mice using actophotometer.

Report :-

The actophotometer has been demonstrated.



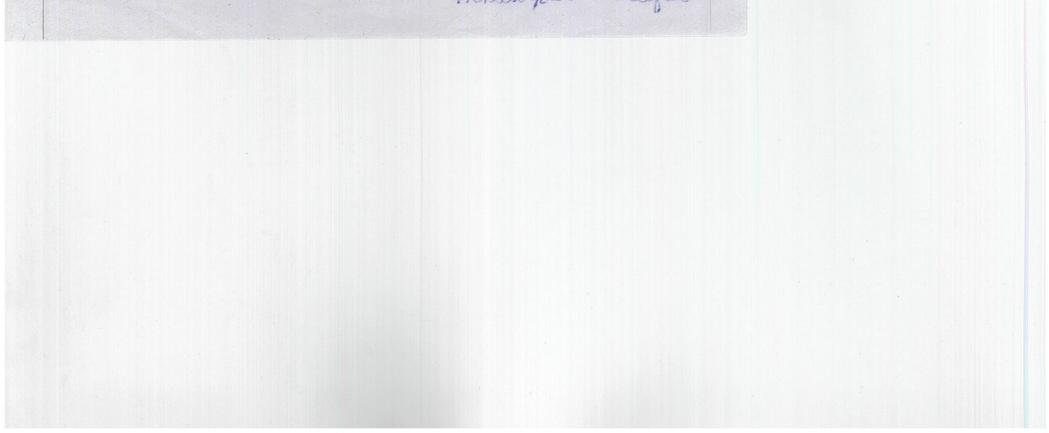


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=) Apparent excitement is seen in patient may shot striggle & hold his breath etc.. =) Heart rate, & BP increases Epupil dilated. 1. Signopeis 1 Surgical praesthesia to notositisepto () Stage - II Entendspt fromtonsets to the segular respiration to exessation of Spontaneous Healthingolorin? () I In this stage the subgetgeone the patient) Inholaton anaestresia 2-types Occurs. Stagette That 3 medullary, paralysto, -, binpit strolov (0 Cessation of breathing to failure of circulation (2) Intravenous anaestresia: and death. =) pupil II widely lotilated muscles are intotally flabley publice is thread by Cas imperceptible and bp is very loss. frint actuals () Aler , mogissio PRINGIPALIES proprios (Avanthi Institute of Pharmaceutical Sciences Cherukupally (V), Bhogapuran Mandarow b (Vizianagaram Dt., - 531162 Stages of Annethesia: + Mitykes Stage - 1: Stage & Analgesia: starts from begining of anaesthetic inholation and last up to the loss of an sincerces. - legences and respiration genrain normal. I pain is progressively abdished days PRINCIPAL Avanthi Institute of Pharinaceutic Stole Etage II Cherukupally (V), Bhogapuram Vizianagaram Dt., - 531162 2055 of consideress to begining of mon noitau'quer repres

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AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES (Approved by A.I.C.T.E, P.C.I, New Delhi, Recognized by the Govt. of A.P. & Affiliated to JNTU-GV, Vizianagaram) Cherukupally (Village), Chittivalasa (SO), Bhogapuram (Mandal), Vizianagaram (Dist) -531162. www.avanthipharma.ac.in, principal@avanthipharma.ac.in

II B Pharmacy II Sem Lab internal -II examinations PCI (R14)

Scheme of valuation

S. No	Evaluation Process	Marks		
1	Internal laboratory exam	10 M		
2	Day to day assessment in laboratory	05 M		
3	Total	15 M		

Signature of the faculty



Cipal

AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

(Approved by P.C.I.S.A.I.C.T.E. Affiliated to J.N.T.U. Kakinada & Recognised by A.P. State Council of Higher Education) Cherukupally (Vi), Chittivalasa (SO), Vizianagaram (Dt.) Pin - 531 162 Phone : 08933-226262, 9705169740

CERTIFICATE

by Mr./Miss J. Jhansi laxr	ni a studen
of B. Pharmacy, Pharm D.M. Pharm	macy, with Regd. No. 21T51ROOA6
in the Pharmacology	Laboratory of Department o
Pharmaceutical Sciences during the	e year2022 - 2023
No. of Experiments 1 0	Avanthi Institute of Pharmaceutical Sciences
K. Rohini	AVAILIN INSTITUTO OF INSTITUTO
Signature Faculty Incharge	Signature of Head of Dept.
Submitted for Practical Examination	held on : 02 08 2023
Humihan	K. Pohini

INDEX

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Date 11-04-23

Expt. No. _ XUE/OR-2024 Page No. ____ I JNTRODUCTION Pharmacology is the science which deals with the study of drops. The used pharmacology is desived from the greek worlds pharmalon and logue broadly covers the information about the history physiochemical properties physiochemical actions, mechanism of action, absorption, distribution, metabolism, Greation and therapetic used lougs Dougs again are chemical substance of diagonosis, prevention, relief foor the purpose desived from the prench care moord drague meaning herb Experimental pharmacology is relatively the youngest boranch of basic medical Although this disapline was started in Europe and England in nineteeth countury it has developed to its present status only during the last peus decades on so, Rutory Bucchin founded the first experimental pharmacolog Caboratory in thes own house in 1849 Oswald schimiedberg Germany. , lerewimer magentic, John Abel, Arther custiney, J.H. Bum and Graddeum mack. Significant contribus tions for the development of experimental pharmacology during lost one one hundred

Signature:

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SSE. 885 893 Page No. 1 Dorrecol & USA I ozeggen tube elost Midde Joho Alias The steedy of pharmorphary is boviesb ant brock mile abouts provincialen and leque covery the minimution chout the history. magan batch by stochernical singlertes. JUDDISTY; adlong, medbandara a goran, abrauption, distribution most abolismon extracts all on grid Hendberge racht fam stinner stinner superintering and chernica losi the propose Joils Jacket 10 all gottasissi diexa ost course los alestived from Ena M Thermometer du se pairopta an perimetrical phe imacallegy is relative becauch testing sic medical sciences regest agreed mi bete Organ Bathaperts with Apris All England in ninelecth counting it has been teveloped to its present status only during the Jews decoder car so Belos y Buccheever formided the first experimental phononacology laboratory in the own, house in 18419 Germany Bewald relimined end i leveenm magentic, John Abel, -Lorthen cheshey Burn and Graddein mack. Significe at tions for the development of how winented phasmacology dusting 10'st and see hundred

Date _____ Expt. No. Page No. 2 years. In india sin Ram North chapera the begining in pharmacological , research traditional dougs. The outer out pharmaeologist. who significantly contributing the growth of this discipline india in R.B. Asura, M.N. Gibosh, U.K sheth, P.C Dandiya has tremendously drifted from aspects. The advancements in the field of electrophysiology biochemistry molecular biology and analytical chemistry have and branded the possigane of E eneriched Experimental pharmacology the main aims of experimental pharmacology are to) Findout a therapeutic agent suitable for human use 2) Study the toxicity of a drug and 3) stud the site of action mechanism and dougs. Since Experiments pharmacology involves the discology of men dougs osito study the actions of excisting doing is done in two main stages Basic Equipments Used in Experimental phannacology: In spite of the treatments in déchanic devices, gaze development Heries and recording systems, tradionally Signature: Suryodaya

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Page No. georis. In indiance mulisons Neils chaperer made the beigning in phanmachegical succession of the chilling of the the cuter out is standing plicamaechiquet. In O "id provally carbibering touther gate the way the wind see play e was indian and BIB, And MIS WM GIANTING SCALESC Davidigues to est it all and deasty i stright from aspects. The advance nemts in the field of electrophypictogy interamenty modeculour bides By and analytical and the root of ave eneriched and branded Helpicrophy Experimental phononacalogy, hiom shi 1 . Crpenimental phasimacology 1 and Eindout a therapeutic agent suitable j'ai human we alisteridy the to cially of cal dering and 3) steed -the mechanism and sit-- ch action ch devery Since Experiments Inamanalagy is Si posil p sheroington Rotating Asumale is dance in this main staged Basia (équipment l'éré un érépenimentel phasemacology !! development in electronic devices ingage there is and precessing systems tradicially

Date Page No. ____3 Expt. No. _____ recording on the smoked paper chymo graph is followed in most of teaching institutions and even in some of the ffi-channel reasons labortorypries. The me polygoraph (physio goraph) neconders now available in the country is too high to make use of them psiatico day to day woorking in the help of appropriate loss with them transducers physicology events blood pressure, heart rate, m mu body temperature can be contration and accurately recorded using poly prophs In the following pages, However the a fical conventional equipments are described Organ bath: fissue both used to put the for bostudying the doung ed student organ both. This animal fissue action is called was first designed by Rudolph margus in 1904. The organ bath essentially consists of 1904. The organ Outer Jacket (water bath) made. up of steel on perper. E b) The inner organ of glass tissue bath made up of glass with i, Thermostatically controlled heading red. Signature: Suryodaya

Date _ Page No. <u>4</u> Expt. No. is Stimen to keep the water in the older jacket at uniform temperature. in, Oxygen on delivery glass tube which is to be the lower connected organbath and the orther solution The is usually of double, the cop glass coil inner organ bath to ensure up to the solution befor wooning the organ bath the student enters organ bath having two units of is tissue student organ bath is called innen double unit organ bath. Recording levels: are used to record they the concenstration or relaxation of isolated tissue preparation. The subording is done on smoked papers fixed cincelar cylinders and different oun of using electrical recording down the speed of the down is adjusted depending upon the nature of the experi-The wording levels are light weight sigid and are generally made up of wood light aluminium on stainless steel the levels are of two types i, isotonic type ; change in length due to Signature: Suryodaya

Date Expt. No. Page No. ____ 5 contration is neconded while the tension the nucleus remains the Gg= isotonic are simple levers even waiting lever. Loometuric type Isometric recording measures incoreases tension of the tissue when the length is kept constant. These are the tissue in special cisicumstances used such recording muscle twichs produced by ele-Stimulation gauge tran ever may be preferred a) Simple Feren - way w. miside g). It is simplest type of lever me wood, stainless steel on aluminium ting woniting up Estylers) is attached celluloid the longer. end of the worting b) Frontal lever (worites frontal Lever is designed in such a way that the coniting points notates preely about helps in reducing the tension amis. This between the smoked paper and the recording tip. The conc. are reduced as straight heart lover. This lever is used Starting's the contraction of the to record heart the difference between and other isotonic levers is that the fulernices at one Signature: Suryodaya

Date Page No. ____6 Expt. No. beyond the point all attachment. Bradies univeral tever. is genera and lever. The other levers equipments along with organ used both lever, gimbal awrotor of n-blocks, clamps and Herent ypes instrumen surgical Recording procedure: for magnification: a) Adjustment the inherent Depending on contracto tissue preparation under the the magnification of the presponse adjusted physiological action responce necording the example en 10 01 quinca-piq is abdomin im SIE designable have 5-10 magnif uterus preparation the magn where of for only ion needed 4-6 times. The adjust ent for magnification is done by proper isting magnification ton is done propely adjusting the distance between attachment to the tissue and point 01 fulsium Distance blue fulwien & conting point(A) lagnification value Distance blue fulwiem & the point of attachment to the tiesue (B). Signature: Suryodaya

Date ____ Expt. No. 7 Page No. If the distance of the longer, ann (A) is and that of the shorter arm (B) is 2cm locm the magnification (A/B) will be 5. b) Application of load (tension): The muscle pereparation has to be properly relaxed without affecting the schuthmic normal tone and 30 efficient contractions an achieved on that the following ways: i, Select the paper length of longest and shorter arms depending on magnification the fissue which is under Stud Balance the lever by putting the weight (plastic) at end of show and mark The point of tissue attachment equidistance the distance between the fulerum and the point of tissue attachment from fulerum on longer asm of the lever, for the desired load required for the particular tissue. The recording can be done directly on while paper with the help of link device (pen) attached to tip of liver. Signature: Suryodaya

GUIDELINES FOR PRACTICE SCHOOL

- In the VII semester, every candidate shall undergo practice school for a period of 150 hours evenly distributed throughout the semester. The student shall opt any one of the domains for practice school declared by the program committee from time to time. At the end of the practice school, every student shall submit a printed report (in triplicate) on the practice school he/she attended (not more than 25 pages).
- Along with the exams of semester VII, the report submitted by the student, knowledge and skills acquired by the student through practice school shall be evaluated by the subject experts at college level and grade point shall be awarded.

Semester VII

Course code	Name of the course	Internal Assessment				End Semester Exams		Total
		Continuous	Sessional Exams		Total	Maules	D	Marks
		Mode	Marks	Duration	Total	Marks	Duration	
BP701T	P701T Instrumental Methods of Analysis – Theory		15	1 Hr	25	75	3 Hrs	100
BP702T	Industrial Pharmacy – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP703T	Pharmacy Practice - Theory	10	15	1 Hr	25	75	3 Hrs	100
BP704T	Novel Drug Delivery System – Theory	10	15	l Hr	25	75	3 Hrs	100
BP705 P	Instrumental Methods of Analysis – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP706 PS	Practice School*	25	-	-	25	125	5 Hrs	150
Total 70			70	8Hrs	140	460	21 Hrs	600

* The subject experts at college level shall conduct examinations

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Avanthi Institute of Pharmaceutical Sciences Cherukupaliy (V), Bhogapuram Mandal Vizianagaram Dt., - 531162

PRACTICE SCHOOL

A REVIEW ON UV SPECTROSCOPY

NAME OF THE STUDENT : E.RAMYA

ROLL NUMBER

:20T51R0027

: RAMYA

EMAIL ID

: ramya.ilipothi@gmail.com

SUBMITTED BY

SUBMITTED TO

: CHAITANYA MAM



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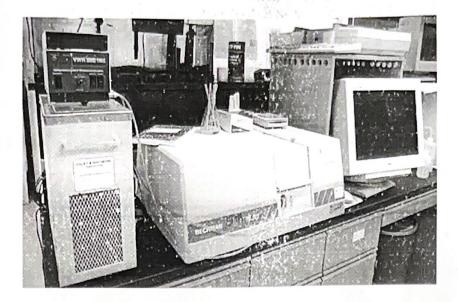
Cherukupally (v), chittivalasa(p.o), Bhogapuram(M)

vizianagaram-53116



Avanthi Institute of Pharmaceutical Sciences Cherukupally (V), Bhogapuram Mandal Vizianagaram Dt., - 531162

INTRODUCTION



• Ultraviolet spectroscopy is concerned with the study of absorption of uv radiations which ranges from 200 to 400nm.

- Compounds which are colorless absorb radiation in the UV region.
- In both UV as well as visible spectroscopy, only the valence electrons absorb the energy, thereby the molecule undergoes transition from Ground state to excited state. This absorption is characteristics and depends on the nature of electrons present.

• The intensity of absorption depends on the concentration and path length as given by Beer-Lambert's law.

The types of electrons present in any molecule may be conveniently classified as

1. " σ " electrons: These are the ones present in saturated compounds.

Such electrons do not absorb near UV. but absorb vacuum UV radiation (<200nm).



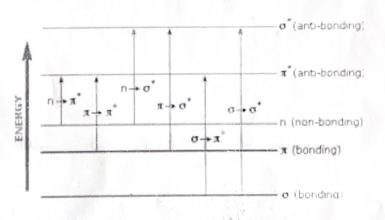
2. "π" electrons: These electrons are present in unsaturated compounds
(eg) double or triple bonds (eg) >C=C<, -C=C-

3. "n" electrons: These are non bonded electrons which are not involved in any bonding (eg) lone pair of electrons like in S. O, N & Halogens (X).

PRINCIPLE

- Any molecule has either n, π or σ a or a combination of these electrons.
- These bonding (σ&π) and non-bonding (n) electrons absorb the characteristic radiation and undergoes transition from ground state to excited state.
- By the characteristic absorption peaks, the nature of the electrons present and hence the molecular structure can be elucidated.

ELECTRONIC TRANSITIONS AND EXCITATION PROCESS



 It was stated earlier that σ, n and π electrons are present in a molecule and can be excited from the ground state by the absorption of UV radiation.

• The various transitions are $n \rightarrow \pi^*, \pi \rightarrow \pi^*, n \rightarrow \sigma^*$ and $\sigma \rightarrow \sigma^*$



- The energy required for excitation for different transitions are: n→ π*
 < π → π* < n→ σ* < σ → σ* Of these transitions required lowest energy and
 σ → σ* requires the highest energy for excitation in the UV region.
- After absorption of UV radiations, these electronic structures ha greater or lesser polar character than in ground state. Some of them exists as biradicals or as activated structures. In general, re-distribution of electrons within the molecule may take place.
- Polar solvents shift n→ π^{*} and no to shorter wavelengths and n→ σ^{*} to longer wavelengths.

LAWS GOVERNING ABSORPTION OF RADIATION

The two laws related to the absorption of radiation are:

- 1. Beer's law (related to Concentration of absorbing species)
- 2. Lambert's law (related to thickness/path length of absorbing species)

These two laws are applicable under the following condition:

$$I = I_a + I_t$$

I = Intensity of incident light

 I_a = Intensity of absorbed light

 I_t = Intensity of transmitted light and No reflection/scattering of light takes place

Beer's Law

Beer's law states that 'The intensity of a beam of monochromatic light decreases

exponentially with increase in the concentration of absorbing species.



Accordingly,

$$\frac{-dI}{dc} \propto I$$

[The decrease in the intensity of Incident light (I) with concentration (c) is proportional to intensity of incident light (I)]

$$\frac{-dI}{dc} = \mathrm{kl}$$

(removing and introducing the constant of proportionality 'k')

$$\frac{-dI}{I} = kdc$$
$$-I_n I = kc + b$$

(On integration, b is constant of integration)

When concentration = 0, there is no absorbance, Hence I = I_0

✤ Substituting in Equation 1,

$$-I_n I_0 = k \times 0 + b$$
$$-I_n I_0 = b$$

Substituting the value of b, in equation 1,

I

$$-I_n I = kc - I_n I_0$$

$$I_n I_0 - I_n I = kc$$

$$I_n \frac{I_0}{I} = kc$$
(since log A - log B = log $\frac{A}{B}$)
$$\frac{I_0}{I} = e^{kc}$$
(removing natural logarithm)
$$\frac{I}{I_0 I} = e^{-kc}$$
(making inverse on both sides)
$$= I_0 e^{-kc} \dots Equation 2 \dots Equation for Beer's law W M PRINCIPAL
Avanthi Institute of Pharmaceutical Sciences
Cherukupally (V), Bhogapuram Mandal
Vizianagaram Dt., - 531162$$

Lambert's law

The rate of decrease of intensity (monochromatic light) with the thickness of the medium is directly proportional to the intensity of incident light.

$$\frac{-dI}{dt} \propto I$$

This equation can be simplified, similar to equation 2 to get the following equation (by replacing'c' with 't')

$$I = I_0 e^{-kt}$$

Equation 2 and 3 can be combined to get

$$I = I_0 e^{-kct}$$
$$I = I_0 10^{-kct}$$
(converting m

(converting natural logarithm to base 10 & $k = k \times 0.4343$)

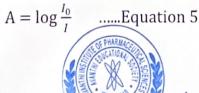
$$\frac{I}{I_0} = 10^{-kct}$$

 $\log_{I_0}^{I_0} = Kct$ (taking log on both sides) ...Equation 4

It can be learnt that Transmittance (T) $=\frac{I}{I_0}$ and

Absorbance (A) = log
$$\frac{1}{T}$$

Hence A =
$$\log \frac{1}{\frac{I}{I_0}}$$



Using Equation 4 & 5, Since A = $\log \frac{I_0}{I}$ and $\log \frac{I_0}{I}$ =Kct we can infer that

A = Kct (instead of K, we can use) $A = \varepsilon ct$

(Mathematical Equation for Beers-Lambert's law)

Where A = Absorbance or optical density or extinction co-efficient

 $\epsilon = Molecular extinction co-efficient$

C =Concentration of drug(mmol/lit)

T = path length (normally 10mm or 1cm)

TYPES OF UV SPECTROSCOPY

Electronic absorption spectroscopy

• In electronic absorption spectroscopy, the absorption of UV radiation by a molecule results in the promotion of an electron from its ground state to an excited state.

• The energy difference between the ground and excited state corresponds to a specific wavelength, which can be measured and used to determine the electronic structure of the molecule.

• This technique is widely used to study the electronic transitions and energy levels of organic molecules.

Fluorescence spectroscopy

• It involves the emission of light by fluorophores, which





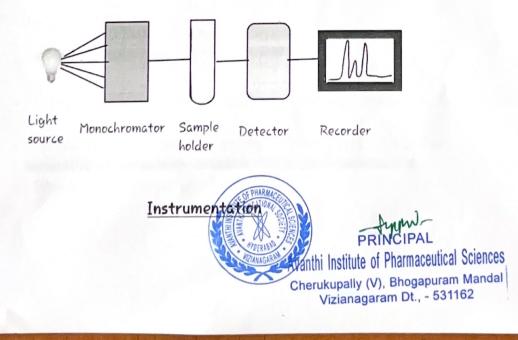
are molecules that absorb UV radiation and re-emit it as visible light.

- When a fluorophore absorbs UV light and transitions to an excited state, it subsequently relaxes back to the ground state by emitting light.
- By analyzing the emitted light, valuable information about the structure and properties of the fluorophore and its environment can be obtained.

INSTRUMENTATION

UV-visible spectrophotometer include

- Source of light
- Monochromators.
- Sample cells.
- Detector.
- Read out device.



1. Source of light:

The best source of light is the one which is more stable, more intense and which gives range of spectrum from 180-360nm (upto 400nm). The different sources available are:

- a. <u>Hydrogen discharge lamp</u>: It is more stable, robust and widely used.
 It gives radiation from 120-350nm. The lamp consists of hydrogen under high pressure.
- b. <u>Deuterium lamp</u>: It is similar to hydrogen discharge lamp, but filled with deuterium in the place of hydrogen. It offers 3-5 times more intensity than other types. This is most widely used, but expensive.
- c. <u>Xenon discharge lamp</u>: In this lamp, xenon at 10-30 atmospheric pressure is filled in and has two tungsten electrodes. The intensity is greater than hydrogen discharge lamp.
- d. <u>Mercury arc</u>: This contains mercury vapour and offers bands which are sharp. The spectrum is not continuous. Hence it is not widely used.

2. Monochromators

- Grating monochromators are used.
- Filters and prism monochromators are not used because of low resolution.
- On the other hand gratings provide a band pass of 0.4 to 2nm.
- Hence they are more widely used.

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Cherukupally (V), Bhogapuram Mandal Vizianagaram Dt., - 531162

- The mirrors, gratings etc are made up of quartz, since glass absorbs uv radiations from 200-300nm.
- Mirrors are front surfaced to prevent absorption of radiation.

3. Sample cells

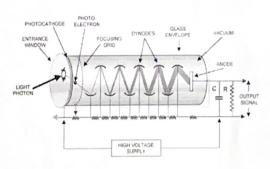
- Sample cell is made up of Quartz.
- Quartz cells only must be used in UV spectroscopy since glass cells will absorb uv radiation.
- The path length of the cells are 10mm or 1cm.

4. Solvents

Solvent plays an important role in uv spectra, since compound peak could be obscured by solvent peak. Hence the solvent for a sample is selected in such a way that the solvent neither absorbs in the region of measurement nor affects the absorption of the sample.

5. Detectors

Photomultiplier tubes are mainly used, since the cost of such uv spectrophotometers are high and more accurate measurements are to be made.



GUIDELINES FOR INDUSTRIAL TRAINING

Every candidate shall be required to work for at least 150 hours spread over four weeks in
a Pharmaceutical Industry/Hospital. It includes Production unit, Quality Control
department, Quality Assurance department, Analytical laboratory, Chemical
manufacturing unit, Pharmaceutical R&D, Hospital (Clinical Pharmacy), Clinical
Research Organization, Community Pharmacy, etc. After the Semester – VI and before
the commencement of Semester – VII, and shall submit satisfactory report of such work
and certificate duly signed by the authority of training organization to the head of the
institute.





Date: 31/10/2022

This is to certify that Ms. Koyya Roshini, from Avanthi Institute of Pharmaceutical Sciences (affiliated to JNTU Kakinada), underwent Industrial training from 01st October 2022 to 31st October 2022. She was trained in "Organic synthesis, downstream process, Analysis of Semi Synthetic Pencillin by Chemical and Instrumental Techniques (HPLC and GC)." During the period she has shown great enthusiasm in learning and her work and efforts are appreciated.

We wish her all the best in future.

for Aurobindo Pharma Ltd.

R. Srinivasa Rao Sr. Manager-Quality.

AUROBINDO PHARMA LIMITED

Umit- XX : 1/22.2/1 to 5.6 to 18, 61 to 69, 80A, Pydibhimuvaram, Ranasthalum (Mandal), Srikakulam District - 532 409., A.P., INDIA Tel : + + 1 8942 288 331/332/334/292 Fax : + +91 8942 288 293 Corporate Office : Galaxy, Floors: 22.24, Plot No. 1, Survey No.83/1, Hyderabad Knowledge City, Raidurg Parenaktha, Ranga Reddy District, Hyderabad - 500 032, Telagana, India. Tel : + 91 40 6672 5000 / 8672 1200, Fax: + 91406707 4044.

PAN No. AABCA7366H



Date: 31/10/2022

This is to certify that Ms. Surata Sai Saranya, from Avanthi Institute of Pharmaceutical Sciences (affiliated to JNTU Kakinada), underwent Industrial training from 01st October 2022 to 31st October 2022. She was trained in "Organic synthesis, downstream process, Analysis of Semi Synthetic Pencillin by Chemical and Instrumental Techniques (HPLC and GC)." During the period she has shown great enthusiasm in learning and her work and efforts are appreciated.

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R. Srinivasa Rao Sr. Manager-Quality.

AUROBINDO PHARMA LIMITED

Bails XI: 1/22.201 to 5.6 to 18, 61 to 69, IDA, Pydibhimavaran, Ranathalan (Mandal), Srikakalan District - 532 409., A.P., INDIA Tal : ++-1 8942 288 331/332/334/292 Fax : + 91 8942 288 293 Corporate Office : Galaxy, Finite: 22-24, Plot No.1, Sorvey No.83/1, Hyderabad Knowledge City, Raidurg Parmaktha, Ranga Roddy District, Hyderabad - 500 032, Telagona, India. Tel : +91 40 6672 5000 / 6872 1200, Fax: + 91406707 4044.



Date: 31/10/2022

This is to certify that Ms. Ratnala Bhargavi, from Avanthi Institute of Pharmaceutical Sciences (affiliated to JNTU Kakinada), underwent Industrial training from 01st October 2022 to 31st October 2022. She was trained in "Organic synthesis, downstream process, Analysis of Semi Synthetic Pencillin by Chemical and Instrumental Techniques (HPLC and GC)." During the period she has shown great enthusiasm in learning and her work and efforts are appreciated.

We wish her all the best in future.

for Aurobindo Pharma Ltd. R. Srinivasa Rao Sr. Manager-Quality

AUROBINDO PHARMA LIMITED

Date XI: 1/22.201 to 5.6 to 18, 61 to 69, IGA, Pyddthmoverum, Ramanthalum (Mandal), Snkakulum District - 532 408, A.P., INDIA Tel : + + 1 8942 268 331/332/334/292 Fax : + + 91 8942 268 293 Corporate Office : Salary, Floors, 22-24, Plot No. 1, Survey No. 83/1, Hyderahad Knowledge City, Raidurg Panmaktha, Ranga Reddy District, Hyderahad 500 032, Telagana, India, Tel : + 91 40 6672 5000 / 6672 1200, Fax : + 91406/02 4044.

PAN No. AABCA7366H



Date: 31/10/2022

This is to certify that Ms. Nammi Padma, from Avanthi Institute of Pharmaceutical Sciences (affiliated to JNTU Kakinada), underwent Industrial training from 01st October 2022 to 31st October 2022. She was trained in "Organic synthesis, downstream process, Analysis of Semi Synthetic Pencillin by Chemical and Instrumental Techniques (HPLC and GC)." During the period she has shown great enthusiasm in learning and her work and efforts are appreciated.

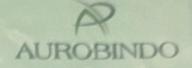
We wish her all the best in future.



AUROBINDO PHARMA LIMITED

Stein #3 : 1/22.2/1 to 5.6 to 18. 61 to 66. IDA, Pydistemerarum, Renasthaten (Mandal), Srikakulum District - 522 409., A.F., INDA Tel : + + 1 8942 288 331/332/334/292 Fax : + + \$1 8942 288 292 Corporate Office : Galaxy, Pions: 22-24, Pint No.1, Sorvey No.83/1, Hyderabad Knowledge City, Raidurg Permaktha, Ranga Reddy Clatrict, Hyderabad - 500 032, Telegana, India, Tal : + 91 40 6672 5000 / 6672 1200, Fax: + 91406707 4044.

PAN No. AABCA7366H



12:47 PM

CERTIFICATE

Date: 31/10/2022

This is to certify that Ms. Telapalli Haritha, from Avanthi Institute of Pharmaceutical Sciences (affiliated to JNTU Kakinada), underwent Industrial training from 01st October 2022 to 31st October 2022. She was trained in "Organic synthesis, downstream process, Analysis of Semi Synthetic Pencillin by Chemical and Instrumental Techniques (HPLC and GC)." During the period she has shown great enthusiasm in learning and her work and efforts are appreciated.

We wish her all the best in future.

for Aurobindo Pharma Ltd.

R. Srinivasa Rao Sr. Manager-Quality.

PAN No. AABCA7366H

AUROBINDO PHARMA LIMITED

Unit-XI : 1/22,2/1 to 5,6 to 18, 61 to 69, IDA, Pydibhimavaram, Ranasthalam (Mandal), Srikakulam District - 532 409., A.P., INDIA Tel : ++-1 8942 288 331/332/334/292 Fax : ++91 8942 288 293 Corporate Office : Galaxy, Floors: 22-24, Plot No.1, Survey No.83/1, Hyderabad Knewledge City, Raidurg Panmaktha, Ranga Reddy District, Hyderabad - 500 032, Telagana, India, Tel : +91 40 6672 5000 / 6672 1200, Fax: + 91408707 4044.

EXTERNAL THEORY EXAMINATION ASSESSMENT



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY GURAJADA VIZIANAGARAM

UNIVERSITY EXAMINATION CENTER, VIZIANAGARAM

IV B.PHARMACY - II SEMESTER (PCI, R16, R13) REGULAR EXAMINATIONS, APRIL - 2023

TIME TABLE

TIME: 10.00 AM TO 01.00 PM

DATE & DAY	PCI REGULAR/SUPPLEMENTARY	R16 REGULATION SUPPLEMENTARY
17.04.2023 (Monday)	Biostatistics and ResearchMethodology (BP801T)	Bioassays & Toxicology (PHR16421)
19.04.2023 (Wednesday)	Social and Preventive Pharmacy (BP802T)	
21.04.2023 (Friday)	Elective – I	
24.04.2023 (Monday)	Elective – II	

NOTE (i) ANY OMISSIONS OR CLASHES IN THIS TIME TABLE MAY PLEASE BE INFORMED TO THE CONTROLLER OF EXAMINATIONS IMEDIATELY,

(ii) EVEN IF GOVERNMENT DECLARES HOLIDAY ON ANY OF THE ABOVE DATES, THE EXAMINATIONS SHALL BE CONDUCTED AS USUAL.

(iii) FOR ANY OTHER CLARIFICATION IN RESPECT OF THE ABOVE EXAMINATIONS PLEASE CONTACT CONTROLLER OF EXAMINATIONS /OR 9652300902.

DATE: 11-04-2023



Controller of Examinations (i/c)



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY-GURUJADA VIZINAGARAM Vizianagaram-535003, Andhra Pradesh

(India)

(Established by Andhra Pradesh Act No.22 of 2021)

Appointment of Observer

Date: 09.06.2023

From The Controller of Examinations, J.N.T. University Gurajada-Vizianagaram, Vizianagaram.

То

The Principal, SIVANI COLLEGE OF PHARMACY

Sub: Observer for B.Pharmacy III Year I Sem Examinations June-2023 during 12-06-

2023to 17-06-2023 -Regd.

This is to inform you that depute one senior faculty, APPALA SWAMI PATNANA, 9573189344 from your college to AVANTHI INSTITUTE OF PHARMACEUTICALSCIENCES (College Code: T5) to act as observers for B.Pharmacy III Year I Sem Examinations conducted during 12-06-2023 to 17-06-2023. During conducting of examinations if any problem arise the observer can directly contact the office of the Controller of Examinations.

Thanking You

Principal

Controller of Examinations

NOTE:

- The observer must clearly identify that every Hall ticket should have the photo of that particular student and itshould be online generated.
- The student who are not received online hall ticket are not eligible for University Examinations.
- Exams will be conducted as per timetable timings, strictly.
- If deputed faculty not available, principal may depute any other senior faculty (recently not deputed) asobserver and send the concern details to Controller of Examinations and Exam Center.
- Observer must and should fill the Dairy and sent it to Controller of Examinations.
- The Observer shall report the Examination Center before one hour the commencement of examination.
- For any Queries Regarding Examination, Observer can Contact to Exam Cell 8374033499





JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY GURAJADA VIZIANAGARAM Jumbling/Clustering Centers List For III B.Pharmacy I Sem Supply Examinations, June- 2023

S.No	CC	COLLEGE NAME	CC	EXAM CENTER NAME
1	РК	VISWANADHA INSTITUTE OF PHARMACEUTICAL SCIENCES	T5	AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES
2	нн	GOKUL PHARMACY COLLEGE	6B	SWAMY VIVEKANANDA ENGINEERING COLLEGE BOBBILI
3	T5	AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES	(1)	
4	B 7	EMMANUEL COLLEGE OF PHARMACY	6F	SAI GANAPATHI ENGINEERING COLLEGE
5	AC	VIGNAN INSTITUTE OF PHARMACEUTICAL TECHNOLOGY	NT	VISAKHA INSTITUTE OF ENGG AND TECH, NARVA, VISAKHAPATNAM
6	DA	SRI SIVANI COLLEGE OF PHARMACY	MT	SRI VENKATESWARA COLL OF ENGG AND TECHNOLOGY, ETCHERLA, SKLM

DATE: 09-06-2023



PRINCIPAL

Avanthi Institute of Pharmaceutical Sciences: Cherukupally (V), Bhogapuram Mandal Vizianagaram Dt., - 531162

Controller of Examinations



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY GURAJADA VIZIANAGARAM Jumbling/Clustering Centers List For III B.Pharmacy II Sem Regular/Supply Examinations, MAY- 2023

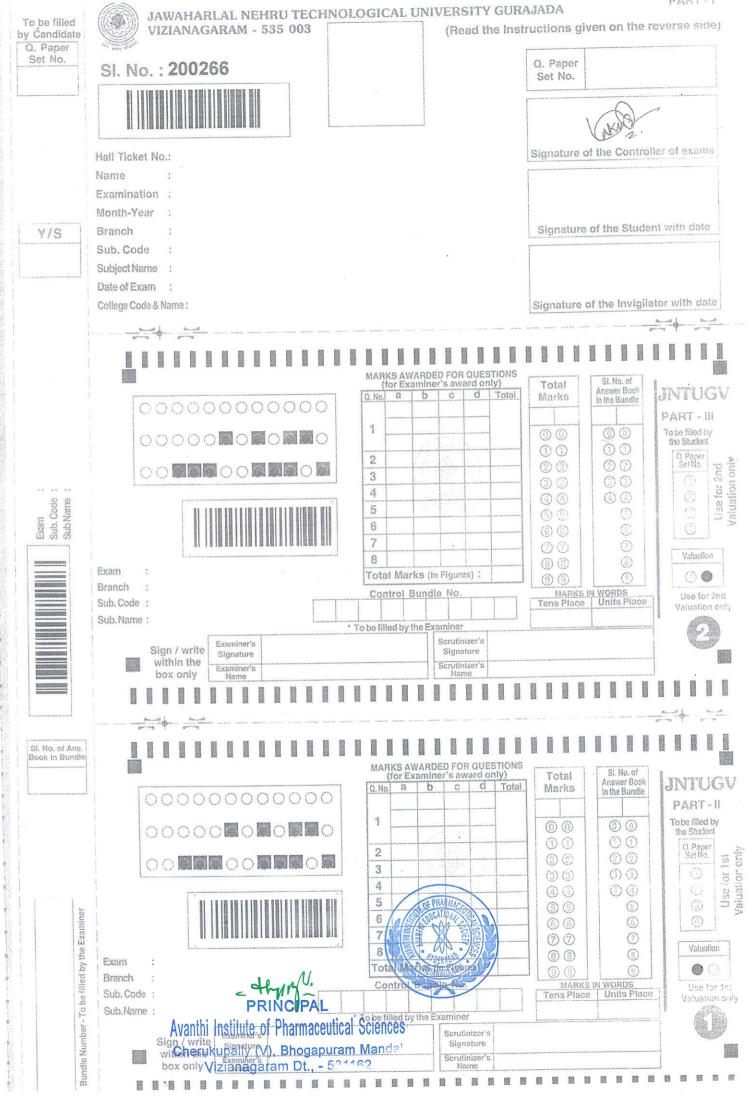
S.No	CC	COLLEGE NAME	CC	EXAM CENTER NAME
1	PK	VISWANADHA INSTITUTE OF PHARMACEUTICAL SCIENCES	T5	AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES
2	HH	GOKUL PHARMACY COLLEGE	6B	SWAMI VIVEKANANDA ENGINEERING COLLEGE BOBBILI
3	T5	AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES	(F	
4	B7	EMMANUEL COLLEGE OF PHARMACY	- 6F	SAI GANAPATHI ENGINEERING COLLEGE
5	AC	VIGNAN INSTITUTE OF PHARMACEUTICAL TECHNOLOGY	NT	VISAKHA INSTITUTE OF ENGG AND TECH, NARVA, VISAKHAPATNAM
6	DA	SRI SIVANI COLLEGE OF PHARMACY	MT	SRI VENKATESWARA COLL OF ENGG AND TECHNOLOGY, ETCHERLA, SKLM

DATE: 19-05-2023

Controller of Examinations







No	Sub Code	Name of the Subject	NAME OF THE VALUATOR	College Code	Contact No	Qualification	Designation
	BP101T	HUMAN ANATOMY AND PHYSIOLOGY I	DR. M. SAVITHRI	PK	9885560877	Ph.D	Professor
с ж.	BP101T	HUMAN ANATOMY AND PHYSIOLOGY I	ANUSHA	DA	9705200636	M.Pharmacy	Asst. Prof
,	BP101T	HUMAN ANATOMY AND PHYSIOLOGY I	ROHINI	T5	6300471838	M.Pharmacy	Asst.Prof
a 	BP101T	HUMAN ANATOMY AND PHYSIOLOGY I	VASANTHA	AC	9959521226	Ph.D	Assoc.Prof
*	BP101T	HUMAN ANATOMY AND PHYSIOLOGY I	VIMALAVATHI	HH	9989897192	M.Pharmacy	Asst.Prof
	BP102T	PHARMACEUTICAL ANALYSIS I	MS. K. SUVARNA	PK	7416760496	M.Pharmacy	Assoc.Prof
	BP102T	PHARMACEUTICAL ANALYSIS I	UPENDRA RAO	DA	9866406767	M.Pharmacy	Assoc.Prof
e 	BP102T	PHARMACEUTICAL ANALYSIS I	ARUNA	T5	8499925796	M.Pharmacy	Asst.Prof
n	BP102T	PHARMACEUTICAL ANALYSIS I	VARAPRASADA RAO	AC	9440080424	M.Pharmacy	Assoc.Prof
0.	BP102T	PHARMACEUTICAL ANALYSIS I	ESWARA RAO	HH	7702520050	M.Pharmacy	Asst.Prof
1.	BP103T	PHARMACEUTICS 1	MRS.D. PAVITRA	PK	6305806054	M.Pharmacy	Asst.Prof
2.	BP103T	PHARMACEUTICS I	RAJESH	DA	9381404751	M.Pharmacy	Asst.Prof
3.	BP103T	PHARMACEUTICS I	VISHNU VANDANA	T5	9704922784	M.Pharmacy	Assoc.Prof
4.	BP103T	PHARMACEUTICS I	KAMALA KUMARI	AC	9985046607	Ph.D	Professor
5.	BP103T	PHARMACEUTICS I	RAMU	HH	9533323359	M.Pharmacy	Asst.Prof
6.	BP104T	PHARMACEUTICAL INORGANIC CHEMISTRY	CHIRANJEEVI	AC	9885467893	Ph.D	Professor
7.	BP104T	PHARMACEUTICAL INORGANIC CHEMISTRY	MS. M. SWAPNA	PK	9963323853	M.Pharmacy	Asst.Prof
8.	BP104T	PHARMACEUTICAL INORGANIC CHEMISTRY	RAMA DEVI	DA	9121840108	M.Sc	Asst.Prof
9.	BP104T	PHARMACEUTICAL INORGANIC CHEMISTRY	POORNIMA	T5	9491790008	M.Pharmacy	Asst.Prof
20.	BP104T	PHARMACEUTICAL INORGANIC CHEMISTRY	DIVYA	HH	6303284610	M.Pharmacy	Asst.Prof

List of Examinary for Spot Valuatio Hone Mar. 2022

he Principals of concerned colleges are requested to depute the Examiners mentioned above for the spot valuation to be conducted from 1-05-2023 at University Examination Section, JNTUGV, Vizianagaram. The Principals are requested to cooperate for smooth conduct of spot valuation nd announcement of results on time.

Date: 30.05.2023

Controller of Examinations



Director of Evaluation

PRINCIPAL Avanthi Institute of Pharmaceutical Sciences Cherukupally (V), Bhogapuram Mandal Vizianagaram Dt., - 531162

S.No	Sub Code	Name of the Subject	NAME OF THE VALUATOR	College Code	Contact No	Qualification	Designation
1.	BP601T	MEDICINAL CHEMISTRY III	MRS. T. SAMANVAI TETALI	PK	9492761669	M,Pharmacy	Asst.Prof
2.	BP601T	MEDICINAL CHEMISTRY III	NEELIMA CHETTU	DA	9492712967	M.Pharmacy	Asst.Prof
3.	BP601T	MEDICINAL CHEMISTRY III	HV SANTHOSHI ALLU	T5	9492633315	M.Pharmacy	Assoc.Prof
4,	BP601T	MEDICINAL CHEMISTRY III	VASUDHA D	AC	9505060543	PhD	Assoc.Prof
5.	BP602T	PHARMACOLOGY III	SRI VENKATESH URITI	DA	9949106729	M.Pharmacy	Assoc.Prof
6.	BP602T	PHARMACOLOGY III	MRS. R. INDU RONGALI	PK	8331815253	M.Pharmacy	Asst.Prof
7.	BP602T	PHARMACOLOGY III	CHAITANYA K R V S	AC	9398167891	M.Pharmacy	Asst.Prof
8.	BP602T	PHARMACOLOGY III	MADHAVIKUMARI MADDU	T5	7702641129	M.Pharmacy	Assoc.Prof
9.	BP603T	HERBAL DRUG TECHNOLOGY	MRS. M. BHAGYA SREE MOLLI	PK	7013884208	M.Pharmacy	Assoc Prof
10.	BP603T	HERBAL DRUG TECHNOLOGY	RAJESH TENDELA	DA	9381404751	M.Pharmacy	Asst.Prof
11.	BP603T	HERBAL DRUG TECHNOLOGY	GANA MANJUSHA K	AC	9885574803	PhD	Assoc.Prof
12.	BP603T	HERBAL DRUG TECHNOLOGY	POORNIMA BUDDHA	T5	9491790008	M.Pharmacy	Asst.Prof

The Principals of concerned colleges are requested to depute the Examiners mentioned above for the spot valuation to be conducted from 31-05-2023 at University Examination Section, JNTUGV, Vizianagaram. The Principals are requested to cooperate for smooth conduct of spot valuation and announcement of results on time.

Date: 30.05.2023

Carlos

Controller of Examinations



Director of Evaluation

PRINCIPAL

EXTERNAL LAB EXAMINATION ASSESSMENT



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY GURAJADA VIZIANAGARAM UNIVERSITY EXAMINATION SECTION

EXTERNAL LAB EXAMINERS FOR III B.PHARMACY I SEMESTER SUPPLEMENTARY EXAMINATIONS, JUNE - 2023

S.No	College Code	Name of the College	District	Examiner
1.	T5	AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES CHERUKUPALLI	VZM	HH
2.	B7	EMMANUEL COLLEGE OF PHARMACY SINGANNABANDA, BHEEMUNIPATNAM, VISAKHAPATNAM	VSKP	РК
3.	НН	GOKUL COLLEGE OF PHARMACY, PIRIDI, BOBBILI, VIZIANAGARAM	VZM	T5
4.	DA	SRI SIVANI COLLEGE OF PHARMACY CHILAKAPALEM, SRIKAKULAM	SKLM	Т5
5.	AC	VIGNAN INSTITUTE OF PHARMACEUTICAL TECHNOLOGY DUVVADA GAJUWAKA	VSKP	PK
6.	РК	VISWANADHA INSTITUTE OF PHARMACEUTICAL SCIENCES SONTYAM VISAKHAPATNAM	VSKP	AC

Controller of Examinations

COST PHARMAC

PRINCIPAL Avanthi Institute of Pharmaceutical Sciences; Cherukupally (V), Bhogapuram Mandal Vizianagaram Dt., - 531162



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY GURAJADA VIZIANAGARAMUNIVERSITY EXAMINATION SECTION

Revised External Lab Examiners for III B.Pharmacy II Semester Regular/Supplementary Examinations, May - 2023

S.No	College Code	Name of the College	District	Examiner
1.	T5	AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES CHERUKUPALLI	VZM	DA
2.	B7	EMMANUEL COLLEGE OF PHARMACY SINGANNABANDA, BHEEMUNIPATNAM, VISAKHAPATNAM	VSKP	НН
3.	HH	GOKUL COLLEGE OF PHARMACY, PIRIDI, BOBBILI, VIZIANAGARAM	VZM	B7
4.	DA	SRI SIVANI COLLEGE OF PHARMACY CHILAKAPALEM, SRIKAKULAM	SKLM	T5
5.	AC	VIGNAN INSTITUTE OF PHARMACEUTICAL TECHNOLOGY DUVVADA GAJUWAKA	VSKP	РК
6.	РК	VISWANADHA INSTITUTE OF PHARMACEUTICAL SCIENCES SONTYAM VISAKHAPATNAM	VSKP	AC





PRINCIPAL Avanthi Institute of Pharmaceutical Sciences Cherukupally (V), Bhogapuram Mandal Vizianagaram Dt., - 531162

Avanthi Institute of Pharmaceutical Sciences

AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES (Approved by A.I.C.T.E, P.C.I, New Delhi, Recognized by the Govt. of A.P. & Affiliated to JNTU-GV, Vizianagaram) Cherukupally (Village), Chittivalasa (SO), Bhogapuram (Mandal), Vizianagaram (Dist) -531162. www.avanthipharma.ac.in, principal@avanthipharma.ac.in

II B Pharmacy II Sem External Lab Examinations PCI, May-2023

Name of the Subject: Pharmacology - I

Time: 180 min. Max. Marks: 35 M Date of exam: 10/07/2023

Section-A

I. Synopsis

- 1. Classify Opioid Analgesics & Explain Mechanism of action of Morphine.
- 2. Explain in detail about G-couple receptors.
- II. Major Experiment

Perform the skeletal muscle relaxant activity of the given drugs using Rota-rod apparatus and report the relaxation effect.

III. Minor Experiment

Perform the Mydriatic or Miotic effect of the given drugs on rabbit eye and report its activity.

IV. Vivo -Voce



Avanthi Institute of Pharmaceutical Sciences Cherukupally (V), Bhogapuram Mandal Vizianagaram Dt., - 531162

5M

5 M

15M

1

10 M

(Appr ESTD: 2005

Avanthi Institute of Pharmaceutical Sciences

AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES (Approved by A.I.C.T.E, P.C.I, New Delhi, Recognized by the Govt. of A.P. & Affiliated to JNTU-GV, Vizianagaram) Cherukupally (Village), Chittivalasa (SO), Bhogapuram (Mandal), Vizianagaram (Dist) -531162. www.avanthipharma.ac.in, principal@avanthipharma.ac.in

II B Pharmacy II Sem External Lab Examinations PCI, May-2023 Name of the Subject: Pharmacology - I Time: 180 min. Max. Marks: 35 M Date of exam: 10/07/2023

Section-B

- 1. Classify parasympathomimetic & explain mechanism of action of acetyl choline
- 2. Explain in detail about clinical trial phases
- II. Major Experiment

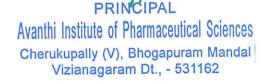
Perform the skeletal muscle relaxant activity of the given drugs using Rota-rod apparatus and report the relaxation effect.

III. Minor Experiment

Perform the Effect of drug on ciliary motility of frog esophagus and report its activity.

IV. Vivo -Voce

K-Rollin Examiner-II



xaminer-l

L **Synopsis**

ESTD : 2005

5M

10 M

5 M

15M

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY GURAJADA, VIZIANAGARAM VIZIANAGARAM - 535 003, ANDHRA PRADESH, INDIA

UNIVERSITY END EXAMINATIONS : MAIN ANSWER BOOK

Casal ?!

Fram · Year	Semester : Reg/Supply	Hallti	cket Number
Exam : Year	Scinester . Regroupping		
Month & Year :		Marka	
Branch :		Marks Awarded	
Name of the Laboratory :			

Signature of the Examiner-1

Signature of the Examiner-2



PRINCIPAL

EXTERNAL PROJECT ASSESSMENT



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY GURAJADA VIZIANAGARAM UNIVERSITY EXAMINATION CENTER, VIZIANAGARAM IV B.Pharmacy II Semester(PCI REGULATIONS) PROJECT EXAMINERS, APRIL – 2023

S.No	CC	College Name	Name of the External Examiners
01	Τ5	Avanthi Institute of Pharmaceutical Sciences	Name: Dr K Rajkiran Designation: Professor Qualification: Ph.D Mobile No: 9398339254 Email: rajkiran.kolakota@gmail.com College Name:Sri Sivani College of Pharmacy, Srikakulam. Teaching Experience: 16 Years

Controller of Examinations



GUIDELINES FOR B PHARMACY PROJECT WORK

- All the students shall undertake a project under the supervision of a teacher and submit a report. The area of the project shall directly relate any one of the elective subjects opted by the student in semester VIII. The project shall be carried out in group not exceeding 5 in number. The project report shall be submitted in triplicate (typed & bound copy not less than 25 pages).
- The internal and external examiner appointed by the University shall evaluate the project at the time of the Practical examinations of other semester(s). Students shall be evaluated in groups for four hours (i.e., about half an hour for a group of five students). The projects shall be evaluated as per the criteria given below.

Evaluation of Dissertation Book:

bjective(s) of the work dor	ne - 15 Marks
Methodology adopted	- 20 Marks
Results and Discussions	- 20 Marks
Conclusions and Outcomes	- 20 Marks
	Total 75 Mark

Evaluation of Presentation:

Presentation of work	- 25 Marks
Communication skills	- 20 Marks
Question and answer skills	-30 Marks

Explanation:

The 75 marks assigned to the dissertation book shall be same for all the students in a group. However, the 75 marks assigned for presentation shall be awarded based on the performance of individual students in the given criteria.



DESIGN DEVELOPMENT AND EVALUATION OF SELF MICRO EMULSIFIED DRUG DELIVERY SYSTEM OF CLARITHROMYCIN



Submitted

In partial fulfillment of regulations for the award of the degree of Bachelor of Pharmacy

BANKAPALLI SAI RAJITHA19T51R0006BEHARA DURGA SAMPATH BHAVANA19T51R0007BIDDIKA PRASANTH KUMAR19T51R0008BODAPATI KAVERI19T51R0009BODDU MARY MANI19T51R0010

Under the guidance of Mrs. SRAVANI BOYAPATI M Pharm.(Ph.D)

AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES CHERUKUPALLY, CHITTIVALASA, BHOGAPURAM VIZAINAGARAM – 531162



DESIGN DEVELOPMENT AND EVALUATION OF SELF MICRO EMULSIFIED DRUG DELIVERY SYSTEM OF CLARITHROMYCIN



Submitted

In partial fulfillment of regulations for the award of the degree of Bachelor of Pharmacy

BANKAPALLI SAI RAJITHA	19T51R0006
BEHARA DURGA SAMPATH BHAVANA	19T51R0007
BIDDIKA PRASANTH KUMAR	19T51R0008
BODAPATI KAVERI	19T51R0009
BODDU MARY MANI	19T51R0010

Under the guidance of

Mrs. SRAVANI BOYAPATI M Pharm, (Ph.D)



AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

CHERUKUPALLY, CHITTIVALASA, BHOGAPURAM



PRÍNCIPAL



AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

Approved by PCI, AICTE, Recognized by the Govt. of A.P. & Affiliated to JNTU, Kakinada)

^{*} Cherukupally Village, Chittivalasa (SO), Bhogapuram(Md), Vizianagaram Dist. - 531 162. Administrative Office : Beside PEN SCHOOL, Dabagardens, Visakhapatnam - 530 020 (A.P.) web : www.avanthienggcollege.org. e-mail : info@avanthienggcollege.org ☎ : 08933 226262
 08933-226739
 09866664637
 Fax : 08933 226739
 ☎ 0891-2748231
 5567320
 Fax : 0891-5567321

CERTIFICATE

This is to certify that the *thesis DESGIN DEVELOPMENT AND EVALUATION OF SELF MICRO EMULSIFIED DRUG DELIVERY SYSTEM OF CLARITHROMYCIN* done for the partial fulfilment for the award of degree of degree of Bachelor of Pharmacy was carried out by BANKAPALLI SAI **RAJITHA(19T51R0006)** BEHARA DURGA SAMPATH BHAVANA(19T51R0007), BIDDIKA PRASANTH KUMAR(19T51R0008) BODAPATI KAVERI (19T51R0009), BODDU MARY MANI(19T51R0010) under the supervision of Mrs Sravani Boyapati, Assoc Prof and guidance at Avanthi Institute of Pharmaceutical Sciences, during the year 2019-2023. It is further certified that the work is original and has not been submitted in part or full any diploma or degree of this or any other university and institute.

PLACE: lagarapuvalasa DATE 29-03-23





Approved by PCI, AICTE, Recognized by the Govt, of A.P. & Affittated to JNTU, Kakinada)

* Cherukupally Village, Chittivalasa (SO), Bhogapuram(Md), Vizianagaram Dist. - 531 162. Administrative Office : Beside PEN SCHOOL, Dabagardens, Visakhapatham - 530 020 (A.P.) web : www.avanthianggcollege.org. e-mail : info@avanthianggcollege.org ☎: 08933 226262 08933-226739 09866664637
 Fax: 08933 226739
 ☎ 0891-2748231 5567320
 Fax: 0891-5567321

CERTIFICATE BY THE GUIDE

This is to certify that the thesis entitled " DESIGN DEVELOPMENT AND EVALUATION OF SYSTEM DELIVERY SELF MICRO **EMULSIFIED** DRUG OF CLARITHROMYCIN done for the partial fulfithe lment for the award of degree of Bachelor of Pharmacy has bee n carried out by B.RAJITHA, B. BHAVANA, B. PPRASANTH KUMAR, B. KAVERI, B. MARY MANI under the supervision and guidance of Mrs. Sravani Boyapati M. pharm (Ph.D) and Dr. M.BV Raju garu M. Pharm, Ph.d at Avanthi Institute of Pharmaceutical Sciences during the year 2019-2023. It is further certified that this work or any part of this has not been previously formed the basis for the award of degree, diploma, fellowship of this or any other university or institute.

Mrs. Sravani Boyapati M.pharm (Ph.D) Assoc. Professor

PLACE: lagarapuvalasa DATE: 29-03-23



APProved by PCI, AICTE, Recognized by the Govt. of A.P. & Affiliated to JNTU, Kakinada)	1 : 08933 226262 08933-226739 09866664637 Fax : 08933 226739
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web : www.avanthienggcollege.org. e-mail : Info@avanthienggcollege.org	Fax : 0891-5567321

CERTIFICATE

I, Mrs. SRAVANI BOYAPATTI, Assoc Professor of Avanthi Institute of Pharmaceutical sciences, Cherukupally-531162 certify that the project work on *DESIGN DEVELOPMENT AND EVALUATION OF SELF MICRO EMSULFIED DRUG DELIVERY SYSTEM OF CLARITHROMYCIN* by BANKAPALLI SAI RAJITHA (19T51R0006), BEHARA DURGA SAMPAT BHAVANA (19T51R0007), BIDDIKA PRASANTH KUMAR(19T51R0008), BODAPATI KAVERI (19T51R0009), BODDU MARY MANI (19T51R0010) of IV B. Pharmacy students of 2019- 2023 is a bonafied work done under the guidance of Mrs. SRAVANI BOYAPATI, Assoc. Prof. (M.Pharm, Ph.D) and it is submitted to Jawaharlal Nehru Technological University, Kakinada-533003 to meet academic regulations of 2019-2023 batch for the award of bachelor's of degree in pharmacy.

GUIDED BY

Sravani

EXTERNAL EXAMINAR

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DECLARATION

The work DESIGN DEVELOPMENT AND EVALUATION OF SELF MICRO MULISIFED DRUG DELIVERY SYSTEM OF CLARITHROMYCIN was carried out by RAJITHA, B. BHAVANA, B. PRASANTH KUMAR, B.KAVERI, B. MARY MANI at (vanthi Institute of Pharmaceutical sciences, cherukupally, Vizianagaram district, Andhra Pradesh, under the joint supervision of Dr. M B VENKATAPATHI RAJU (M Pharm, Ph.D), Principal, Avanthi Institute of Pharmaceutical sciences and Mrs. Sravani Boyapati M.pharm (Ph.D) Associate Professor of Avanthi Institute of Pharmaceutical sciences. The extent and source of information derived from the existing literature have been indicated throughout the thesis at Avanthi Institute of Pharmaceutical Sciences. The work is original and has not been submitted in part or full for any diploma or degree of this or any other university and institute.



ACKNOWLEDGEMENT

We take the opportunity to acknowledge all the people who helped me to successfully complete my project work.

We extend our profound sense of gratitude to Sri M. SRINIVASA RAO, Chairman, Avanthi Institute of Pharmaceutical Sciences for providing us the basement to develop our skills by providing all the facilities which helped us to overcome all the hurdles during the course of completion of the project work.

We sincerely thank Prof. M B VENKATAPATHI RAJU (M Pharm, Ph D) Principal. Avanthi Institute of Pharmaceutical Sciences for his timely being and support.

We express our sincere acknowledgement and thank to our project guide Associate. **Prof.** *Mrs SRAVANI BOYAPATI, (M.Pharm, Ph.D.), Department of pharmaceutics. Avanthi Institute of pharmaceutical sciences for her constant support and encouragement and we sincerely thank her for being with us during the hard times and helping us to bring the project into a good shape. We thank madam for her patience and ignoring our ignorance and giving us the light of knowledge to develop ourself in the field of pharmacy.*

We are grateful to all the faculty members for giving us thought provoking suggestions and helping us to explore different fields which helped us for successful completion of the project. We also thank all the non teaching staff for their timely assistance.

Last but the least we want thank our beloved parents, relatives and all our friends for giving us courage and strength to complete the project within the time and helped us to fly out in different colors.

B. BHAVANA

3. Bhavana

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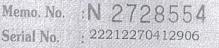
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B. SAI RAJITHA (19T51R0006) B. Sai Rapto B. PRASANTH (19T51R0008) J. Joseph J. B. MARY MANI (19T51R0010) B. MARY MANI (19T51R0010)

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GRADE CARD



Examination : IV B. Pharmacy I Semester(PCI) Reg.

Branch

Name KOTARI SANTHOSH

Aadhar No. :

2 2 2 2 PM		
Hall Ticket	No.	



.19T51R0050

Month & Year of Exams : NOVEMBER 2022

Institution : AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

S.No.	COURSE	COURSE TITLE	Grade Secured	Grade Points, G i	Statu	Credite Obtaine C i
1	BP701T	INSTRUMENTAL METHODS OF ANALYSIS - THEORY	D	6	Р	4
2	BP702T	INDUSTRIAL PHARMACYII - THEORY	D -	6	P	4
3	BP703T	PHARMACY PRACTICE - THEORY	D	6	Р	4
4	BP704T	NOVEL DRUG DELIVERY SYSTEM - THEORY	c	7	P	4
5	BP705P	INSTRUMENTAL METHODS OF ANALYSIS - PRACTICAL	0	10	Р	2
6 1	BP706PS	PRACTICE SCHOOL*	A	9	Р	6
ours	es Registered	: 6 Appeared : 6 Passed : 6 Total :				24

* Medium of Instructions and Examinations in English

Semester Grade Point Average (SGPA): 7.25



PRINCIPAL Avanthi Institute of Pharmaceutical Science Cherukupally (V), Bhogapuram Manda Vizianagaram Dt., - 531162

CONTROLLER OF EXAMINATIONS

23-Jan-2023 Date of Issue : Verified by

MP : Mai Practice P : Pass WH : With Held F : Fail AB : Absent Note : Any discrepancy must be represented within 15 days from the date mentioned above.

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List of External Grievances During the academic year -2022-2023

The Examination cell is responsible for addressing any grievances pertaining to End examinations. If necessary, the cell promptly sends a letter to the university. The University then takes immediate action based on the nature of the grievance. In case a student is dissatisfied with the marks awarded to them in the End examination, they have the option to choose Revaluation, Recounting, or Challenge evaluation by paying the required fee to the university. If students opt for re-evaluation or rechecking of their answer scripts, they must submit the same to the university for necessary action. Therefore, the college has implemented a transparent, time-bound, and efficient mechanism. The Examination cell handles grievances related to errors in certificates by raising the matter with the university. The following list provides the number of students who have applied for Revaluation/Recounting and the number of students whose marks have been changed for the academic year **2022-2023**.

The total number of external grievances regarding Recounting/Re-Evaluation, Modification in Certificates during the academic year 2022-2023 is 09.



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Avanthi Institute of Pharmaceutical Sciences

	III B.Pharmacy II S	emester (PCI) Regular/Supply. Examinations h	eld in May -	2023		
	Revaluation/Recounting Results						
	Date: 26-12-2023						
S.No	Roll No	Subcode	Sub Name	Grade	Status		
1	19AC1R0016	BP602T	PHARMACOLOGY III	F	No Change		
2	19DA1R0069	BP601T	MEDICINAL CHEMISTRY III	F	No Change		
3	20T51R0082	BP602T	PHARMACOLOGY III	F	No Change		
4	20T51R0082	BP603T	HERBAL DRUG TECHNOLOGY	D	Change		
5	20T51R0085	BP603T	HERBAL DRUG TECHNOLOGY	D	Change		
6	20T51R0085	BP602T	PHARMACOLOGY III	F	No Change		
7	20B71R0020	BP602T	PHARMACOLOGY III	F	No Change		
8	20B71R0035	BP602T	PHARMACOLOGY III	F	No Change		
9	20B71R0050	BP602T	PHARMACOLOGY III	F	No Change		
10	20T51R0081	BP602T	PHARMACOLOGY III	F	No Change		
11	20T51R0093	BP602T	PHARMACOLOGY III	F	No Change		
12	20T51R0096	BP602T	PHARMACOLOGY III	F	No Change		
13	20T51R0032	BP602T	PHARMACOLOGY III	D	Change		
14	20T51R0035	BP602T	PHARMACOLOGY III	D	Change		
15	21B75R0002	BP602T	PHARMACOLOGY III	F	No Change		
16	20T51R0056	BP603T	HERBAL DRUG TECHNOLOGY	С	Change		
17	20AC1R0045	BP602T	PHARMACOLOGY III	F	No Change		
18	20AC1R0072	BP602T	PHARMACOLOGY III	D	Change		
19	20AC1R0096	BP602T	PHARMACOLOGY III	F	No Change		
20	20AC1R00A1	BP601T	MEDICINAL CHEMISTRY III	F	No Change		
21	20AC1R00A1	BP602T	PHARMACOLOGY III	F	No Change		
22	20B71R0047	BP603T	HERBAL DRUG TECHNOLOGY	D	Change		
23	20DA1R0006	BP602T	PHARMACOLOGY III	F	No Change		
24	20DA1R0025	BP606T	QUALITY ASSURANCE	С	Change		
25	20DA1R0027	BP602T	PHARMACOLOGY III	F	No Change		
26	20DA1R0033	BP602T	PHARMACOLOGY III	D	Change		
27	20DA1R0039	BP603T	HERBAL DRUG TECHNOLOGY	D	Change		
28	20DA1R0055	BP603T	HERBAL DRUG TECHNOLOGY	С	Change		
29	20PK1R0004	BP603T	HERBAL DRUG TECHNOLOGY	D	Change		
30	20PK1R0028	BP601T	MEDICINAL CHEMISTRY III	D	Change		
31	20PK1R0057	BP603T	HERBAL DRUG TECHNOLOGY	D	Change		
32	20DA1R0010	BP603T	HERBAL DRUG TECHNOLOGY	D	Change		
33	20DA1R0011	BP603T	HERBAL DRUG TECHNOLOGY	D	Change		
34	20T51R0077	BP602T	PHARMACOLOGY III	F	No Change		
35	18AC1R0027	BP606T	QUALITY ASSURANCE	F	No Change		
36	18AC1R0038	BP606T	QUALITY ASSURANCE	D	Change		



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List of Internal Grievances During the academic year -2022-2023

S No	Name of the Issue /Grievances	Date of issue raised	Date of issue solved
1.	Re-issuing of hall ticket	14/11/2022	14/11/2022
2.	Re-issuing of hall ticket	12/12/2022	12/12/2022
3.	Seeking permission for ID Card	19/07/2023	19/07/2023
4.	Seeking permission for transport for exam centre	17/04/2023	17/04/2023
5.	Seeking permission for transport for exam centre	15/05/2023	15/05/2023
6.	Seeking permission for ID Card	27/09/2023	27/09/2023
7.	Re-issuing of hall ticket	03/10/2023	03/10/2023



PRINCIPAL

Cherukupally, Date-14-11-2022

To

The Principal,

Avanthi Institute of pharmaceutical Sciences, Cherukupally.

Sub: Reissusing of Hall Ticket. Respected Sir,

I T. Aravind Pursuing B. Pharm 4th year-1st Sem bearing the 19751R0095. I would like to inform you that my hall ticket was missing due to I was not allowed for Examination. I hope my problem would be considered and reissue may hall ticket. And I hope that I would be allowed for Examination. Thanking you,

> Your's Obediently, T. Aravind, 19751R0095, 4th year B. Pharmacy. Sem-1st



vitianagram 12-12-2022

TO

The perincipal,

Avanth? Postitute of Phasumaceutical sciences, Chemikupatly.

Sub :- Reissuing of Hall ticket

Respected 50,94, D. K. Devi puusuing B. Phaumacy, 3rd year 2st beauing that 20TSITROO44. I was melssing would like to inform you that my hall ticket was missing due to I was not allowed for examination. I hope my peroblem would be Sem would q represent my han tocket à hôpe examination. mould be allowed you examination. CORSidevied P that Phanking you

yours obediently K. Deni 2015 ROO44 3rd year B. Pharmacy



Vizianagaram, Dt:-19-07-2023.

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The Principal, Avanthi Institute of Pharmaceutical Sciences, Cherukupally.

Subject: Seeking permission for ID card. Respected Sir,

I am P. Shireesha studying B. Pharmacy and year and sem bearing roll no: 21751R0071. I would like to inform you that I have forgetten my ID could at home. So, I request you to allow me for the External Exam.

Thanking you,

Yower Obediently, P.Shireesha, 2ITSIROOFI.



Vizayanagaram Date: 17-04-2023

To,

The Principal sir, Avanthi Institute of Pharmaceutical sciences, Cherukupally. Sub: Seeking Permission for transport. Respected Sir,

I T. haritha Studying 4th B. pharm Bearing You no: 19T51R0093. I would like to Inform you that we are writting Semistar and Examination in other collages. As if too far from our home town, there is no other alternative for us to reach the Centre. SO I request you to provide the transportation during Exames time

> Thaking you Your's obediently T.haritha HthB Pharmacy 2nd - sem



Vizianagaram Date :- 15-05-2023

Io,

The Principal sir, Avanthi Institute of pharmaceutical sciences, cherukupally.

Sub : Seeking permission for Transport

Respected size, I Chitti Garesh studying 3rd B. Pharmacy 2nd sem leaving Roll no: 20T51R0021, 9 would like to inform you that we are wenting semester examinations in other colleges As it too par prom our home tour there is no other alternative for ris to reach the centre. so I request you to provide the transportation during exams time-Thanking you,

you's Obediently Chitli Garesh 20T51R0021.



Vizianagaram, Date: - 3-10-2023.

TO The principal, Avanthi institute à pharmaceutical sciences, cherukupally. sub: Reissuing of Hall ticket. Respected sir, I. P. Bindu sai pursuing P. Bindusai, B. Pharman 1st year-2nd sem bearing that 22751120077. I was missing would like to inform you that my hall ticket was missing due to 5 was not allowed for examination. I hope my problem would be considered and reissue my hallticket. And, Hope that I would be allowed for examination.

yours obediently, P. Bindu sai 22T51R0077, 1st year Bipharmacy.

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