



JNTUK KAKINADA

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 semester shall 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 Project over 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-I: Course of study for semester I

Course code	Name of the course	No. of hours	Tutorial	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)

Table-II: Course of study for semester II

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

*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

Table-IV: Course of study for semester IV

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-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 – Practical	4	-	2
Total		27	5	26

Table-VI: Course of study for semester VI

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-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)

Table-VIII: Course of study for semester VIII

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	3 + 3 = 6	1 + 1 = 2	4 + 4 = 8
BP804ET	Pharmaceutical Regulatory Science			
BP805ET	Pharmacovigilance			
BP806ET	Quality Control and Standardization of Herbals			
BP807ET	Computer Aided Drug Design			
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-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 be conducted 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 code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	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 code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
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 code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
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 code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP401T	Pharmaceutical Organic Chemistry III– Theory	10	15	1 Hr	25	75	3 Hrs	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
BP404T	Pharmacology I – Theory	10	15	1 Hr	25	75	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 code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
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 – Theory	10	15	1 Hr	25	75	3 Hrs	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 code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
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 code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	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

Course code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
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	10 + 10 = 20	15 + 15 = 30	1 + 1 = 2 Hrs	25 + 25 = 50	75 + 75 = 150	3 + 3 = 6 Hrs	100 + 100 = 200
BP804ET	Pharmaceutical Regulatory Science – Theory							
BP805ET	Pharmacovigilance – Theory							
BP806ET	Quality Control and Standardization of Herbals – Theory							
BP807ET	Computer Aided Drug Design – Theory							
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: Scheme for awarding internal assessment: Continuous mode

Theory		
Criteria	Maximum Marks	
Attendance (Refer Table – XII)	4	2
Academic activities (Average of any 3 activities e.g. quiz, assignment, open book test, field work, group discussion and seminar)	3	1.5
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	

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 x 1 = 10
OR		OR
Objective Type Questions (5 x 2)	=	05 x 2 = 10
(Answer all the questions)		
I. Long Answers (Answer 1 out of 2)	=	1 x 10 = 10
II. Short Answers (Answer 2 out of 3)	=	2 x 5 = 10

Total	=	30 marks

For subjects having Non University Examination

I. Long Answers (Answer 1 out of 2)	=	1 x 10 = 10
II. Short Answers (Answer 4 out of 6)	=	4 x 5 = 20

Total	=	30 marks

Question paper pattern for practical sessional examinations

I. Synopsis	=	10
II. Experiments	=	25
III. Viva voce	=	05

Total	=	40 marks

12. Promotion and award of grades

A student shall be declared PASS and eligible for getting grade in 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 student fails 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 Assessments shall be carried over and he/she shall be entitled for grade obtained by him/her on passing.

14. Improvement of internal assessment

A student shall have the opportunity to improve his/her performance only once in 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 of end semester examinations shall be conducted as per the schedule given in table XIII. The exact dates of examinations shall be notified from time to time.

Table-XIII: Tentative schedule of end semester 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

Question paper pattern for end semester theory examinations**For 75 marks paper**

I. Multiple Choice Questions(MCQs)	=	20 x 1	= 20
OR		OR	
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)	=	7 x 5	= 35

Total = 75 marks

For 50 marks paper

I. Long Answers (Answer 2 out of 3)	=	2 x 10	= 20
II. Short Answers (Answer 6 out of 8)	=	6 x 5	= 30

Total = 50 marks

For 35 marks paper

I. Long Answers (Answer 1 out of 2)	=	1 x 10	= 10
II. Short Answers (Answer 5 out of 7)	=	5 x 5	= 25

Total = 35 marks

Question paper pattern for end semester practical examinations

I. Synopsis	=	5
II. Experiments	=	25
III. Viva voce	=	5

Total = 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 AB should 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.

Table – XII: Letter grades and grade points equivalent to Percentage of marks and performances

Percentage of Marks Obtained	Letter Grade	Grade Point	Performance
90.00 – 100	O	10	Outstanding
80.00 – 89.99	A	9	Excellent
70.00 – 79.99	B	8	Good
60.00 – 69.99	C	7	Fair
50.00 – 59.99	D	6	Average
Less than 50	F	0	Fail
Absent	AB	0	Fail

A learner who remains absent for any end semester examination shall be assigned a letter grade of AB and 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:

$$\text{SGPA} = \frac{C_1G_1 + C_2G_2 + C_3G_3 + C_4G_4 + C_5G_5}{C_1 + C_2 + C_3 + C_4 + C_5}$$

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 AB grade awarded in that semester. For example if a learner has a F or AB grade in course 4, the SGPA shall then be computed as:

$$\text{SGPA} = \frac{C_1G_1 + C_2G_2 + C_3G_3 + C_4* \text{ZERO} + C_5G_5}{C_1 + C_2 + C_3 + C_4 + C_5}$$

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 status in case of F grade(s), till the course(s) is/are passed. When the course(s) is/are passed by obtaining a pass grade on subsequent examination(s) the CGPA shall only reflect the new grade and not the fail grades earned earlier. The CGPA is calculated as:

$$\text{CGPA} = \frac{C_1S_1 + C_2S_2 + C_3S_3 + C_4S_4 + C_5S_5 + C_6S_6 + C_7S_7 + C_8S_8}{C_1 + C_2 + C_3 + C_4 + C_5 + C_6 + C_7 + C_8}$$

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 project under 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

Total	75 Marks
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Evaluation of Presentation:

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

Total	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 level and 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.

Grams: "TECHNOLOGY"
Email: dapjntuk@gmail.com



Phone: 0884-2300991
Mobile: +9963993504

Directorate of Academic & Planning
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
KAKINADA-533003, Andhra Pradesh, INDIA
(Established by AP Government Act No. 30 of 2008)

Lr. No. JNTUK/DAP/AC/B. Pharmacy/III Year/2019-20

Date: 30-05-2019

Dr. A. Mallikarjuna Prasad
M.E, Ph.D.,
Director, Academic Planning

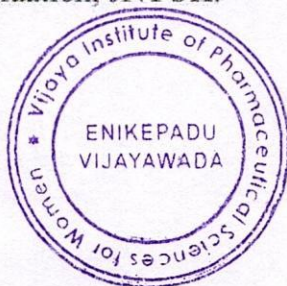
To
All the Principals of Affiliated Colleges,
JNTUK, Kakinada

ACADEMIC CALENDAR FOR B. PHARMACY III YEAR (2017 BATCH)

I SEMESTER			
Description	From	To	Weeks
Commencement of Class Work	10.06.2019		
I Unit of Instructions	10.06.2019	03.08.2019	8W
I Mid Examinations	05.08.2019	10.08.2019	1W
II Unit of Instructions	12.08.2019	05.10.2019	8W
II Mid Examinations	07.10.2019	12.10.2019	1W
Preparation & Practicals	14.10.2019	19.10.2019	1W
End Examinations	21.10.2019	02.11.2019	2W
Commencement of II Semester Class Work	18.11.2019		
II SEMESTER			
I Unit of Instructions	18.11.2019	11.01.2020	8W
I Mid Examinations	13.01.2020	23.01.2020	1W
II Unit of Instructions	24.01.2020	21.03.2020	8W
II Mid Examinations	23.03.2020	28-03-2020	1W
Preparation	30.03.2020	04.04.2020	1W
End Examinations	06.04.2020	18.04.2020	2W
Commence of IV Year Class Work	08.06.2020		

A.m.prasad
Director Academic Planning

Copy to the Secretary to the Hon'ble Vice Chancellor, JNTUK.
Copy to PA to the Rector, JNTUK.
Copy to PA to the Registrar, JNTUK.
Copy to PA to the Director of Evaluation, JNTUK.




PRINCIPAL
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PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU VIJAYAWADA 521 108

**INSTITUTIONAL EXAMINATION
COMMITTEE**

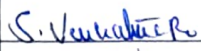
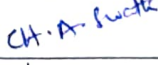
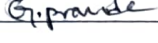
VIJAYA INSTITUTE OF PHARMACEUTICAL SCIENCES FOR WOMEN
Enikepadu, Vijayawada – 521108

Date: 29-07-2019

OFFICE ORDER

INSTITUTIONAL EXAMINATION COMMITTEE

The Institutional Examination Committee for the academic year 2019 – 2020 is constituted as follows and it is effective for a period of 29-07-2019 to 21-12-2019. Following staff members are appointed as Institutional Examination Committee.

S.NO	NAME	DESIGNATION	POSITION	SIGNATURE
1	Dr. K. Padmalatha	Principal	Chairman	
2	Mr. S. Venkateswara Rao	Assoc. Professor	College Examination Officer	
3	Mrs. M. Vani	Assoc. Professor	Member	
4	Mrs. Ch. Anupama Swathi	Asst. Professor	Member	
5	Mr. Y. Naveen	Asst. Professor	Member	
6	Mrs. G. Pramoda	Asst. Professor	Member	

Functions and Responsibilities:

1. Ensure proper dissemination of information with regard to examination among all the stakeholders' viz. students / faculty / non – teaching staff / university authorities etc.
2. Receive and submission of exam notification / schedule from JNTUK web portal.
3. To ensure proper organization of in semester assessments / sessional / end semester examinations in the college.
4. Ensure proper communication with JNTUK with regards to examination and fulfillment of university circulars.
5. Appoint alternative external senior supervisor / chairman / internal examiners / external examiners for conduct of end semester theory / practical examination with permission of university authorities.
6. Record and issue the answer books and other exam related stationary to the invigilators / internal examiners 30 minutes before start the exam
7. Download and print the appropriate number of question papers at least 20 minutes before the commencement of the exam and maintaining absolute confidentiality
8. Resolve students / faculty / university grievances with regards to examinations.
9. Uploading internal theory / practical examination marks on JNTUK web portal.
10. Maintain records with regards to conduct of examination and results.

Copy to: 1. Establishment File
2. Concerned Faculty member


Dr. K. Padmalatha
PRINCIPAL
VIJAYA INSTITUTE OF
PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU, VIJAYAWADA
PIN - 521 108

VIJAYA INSTITUTE OF PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU, VIJAYAWADA – 521108.

Date: 29.07.2019

III B. PHARMACY (R - PCI) / I SEM / I MID TIME TABLE

Date	Subject	Timings	Staff Signature
03.08.2019 (Saturday)	Pharmaceutical Jurisprudence (BP505T) <i>GM</i>	11.00PM – 01.00PM	<i>[Signature]</i>
05.08.2019 (Monday)	Medicinal Chemistry – II (BP501T) <i>UAK</i>	01.30PM – 3.30PM	<i>[Signature]</i>
06.08.2019 (Tuesday)	Pharmacognosy & Phytochemistry – II (BP504T) <i>MV</i>	01.30PM – 3.30PM	<i>[Signature]</i>
07.08.2019 (Wednesday)	Industrial Pharmacy – I (BP502T) <i>SP</i>	01.30PM – 3.30PM	<i>S. Raveen</i>
08.08.2019 (Thursday)	Pharmacology – II (BP503T) <i>AB</i>	01.30PM – 3.30PM	<i>A. Bharane</i>

NOTE:

1. Send the Question Papers to Exam Section Mail. Id: vipwexams@gmail.com

S. Venkateswara Rao
Exams in charge
(Mr. S. Venkateswara Rao)
EXAMS-INCHARGE
VIJAYA INSTITUTE
PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU, VIJAYAWADA 521 108

[Signature]
Principal
(Dr. K. Padmalatha)
VIJAYA INSTITUTE OF
PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU, VIJAYAWADA
PIN - 521 108

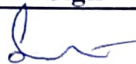
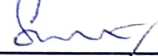
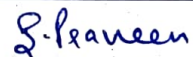
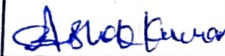
VIJAYA INSTITUTE OF PHARMACEUTICAL SCIENCES FOR WOMEN

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IV & III B. PHARM MID EXAM STAFF INVIGILATION DUTIES

Time: 03.08.19 - 10AM to 12 NOON

05.08.19 - 08.08.19 - 01:30PM to 3:30PM

DATE	Room - 1		Room - 2		Room - 3		Room - 4	
	Staff	Sign	Staff	Sign	Staff	Sign	Staff	Sign
03.08.2019 (Saturday)	Mr. Ch. Ravi Kumar		Mrs. R. Sunitha		Mrs. Ch. Anupama Swathi		Mrs. A. Hima Bindu	
	Mrs. D. Santhi Krupa		Mrs. M. Vani		Mr. S. Praveen		Mrs. G. Madhavi	
05.08.2019 (Monday)	Mrs. R. Sunitha		Mrs. Ch. Anupama Swathi		Mrs. A. Hima Bindu		Mr. Ch. Ravi Kumar	
	Mrs. M. Vani		Mr. S. Praveen		Mrs. G. Madhavi		Mrs. D. Santhi Krupa	
06.08.2019 (Tuesday)	Mrs. Ch. Anupama Swathi		Mrs. A. Hima Bindu		Mr. Ch. Ravi Kumar		Mrs. R. Sunitha	
	Mr. S. Praveen		Mrs. G. Madhavi		Mrs. D. Santhi Krupa		Mrs. M. Vani	
07.08.2019 (Wednesday)	Mrs. A. Hima Bindu		Mr. Ch. Ravi Kumar		Mrs. R. Sunitha		Mrs. Ch. Anupama Swathi	
	Mrs. G. Madhavi		Mrs. D. Santhi Krupa		Mrs. M. Vani		Mr. S. Praveen	
08.08.2019 (Thursday)	Mr. V. Ashok Kumar		Mr. Ch. Ravi Kumar		Mr. A. Jayarami Reddy		Mr. V. Srinivas	
	Mr. S. Praveen		Mrs. P. Durga		Mr. M. Bala Krishna		Mr. Y. Naveen	


Principal 31/7
(Dr. K. Padmalatha)

VIJAYA INSTITUTE OF
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ENIKEPADU, VIJAYAWADA
PIN - 521 108

INTERNAL SQUAD COMMITTEE

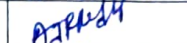
VIJAYA INSTITUTE OF PHARMACEUTICAL SCIENCES FOR WOMEN
Enikepadu, Vijayawada – 521108

Date: 29-07-2019

OFFICE ORDER

INTERNAL SQUAD COMMITTEE

The Internal Squad Committee has been constructed for smooth conduct of sessional / end semester examinations for the academic year 2019 – 2020 for the period of 29-07-2019 to 21-12-2019. Following staff members are appointed as Internal Squad Committee.

S.NO	NAME	DESIGNATION	POSITION	SIGNATURE
1	Dr. K. Padmalatha	Principal	President	
2	Mr. S. Venkateswara Rao	Assoc. Professor	Chairman	
3	Mr. A. Jayarami Reddy	Asst. Professor	Member	
4	Dr. M. Tabitha Sharon	Asst. Professor	Member	
5	Mrs. G. Pramoda	Asst. Professor	Member	

Responsibilities:

1. Strict checking of unfair means is sole responsibility of members of committee.
2. Before the start of examination, the committee members should check every student.
3. Care should be taken by committee members, that the students should not carry mobile phones, calculator or any sort of electronic material inside the examination hall.
4. Check whether students are carrying hall tickets by committee members to maintain environment of examination. Any issue related to the unfair means should immediately report to the principal or college examination officer.

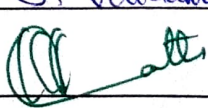
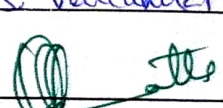
Copy to: 1. Establishment File
2. Concerned Faculty member


Dr. K. Padmalatha
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VIJAYA INSTITUTE OF PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU, VIJAYAWADA - 521108.

III B. PHARM/ I SEM (PCI) MID EXAM
ATTENDANCE DAIRY

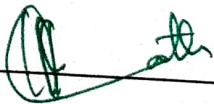
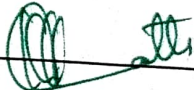
Sub: Pharmacognosy and Phytochemistry-II (BP504T)

S. No	Hall-Ticket No	STUDENT SIGNATURE	
		I MID	II MID
1	177N1R0001	M. Hema Latha.	M. Hema Latha.
2	177N1R0002	A. Manisha Goud.	A. Manisha Goud
3	177N1R0003	D. Mouunika Choudhary	D. Mouunika Choudhary
4	177N1R0004	T. Harila	T. Harila
5	177N1R0005	U. G. N. S. Sunethri/:	U. G. N. S. Sunethri/:
6	177N1R0006	T. pavanipriya	T. Pavanipriya/:
7	177N1R0007	Ch. Bhargavi	Ch. Bhargavi
8	177N1R0008	M. swetha manasa	M. swetha manasa
9	177N1R0009	K. Manasa	K. Manasa/:
10	177N1R0011	V. Ramyasri	V. Ramyasri
11	177N1R0012	Ch. Geethika.	Ch. Geethika.
12	177N1R0013	G. Divyasree	G. Divyasree
13	177N1R0014	V. Sushma	V. Sushma
14	177N1R0015	V. Tyothirmai	V. Tyothirmai
15	177N1R0016	M. Jahnvi Sai	M. Jahnvi Sai
16	177N1R0017	Md. Aysha	Md. Aysha
17	177N1R0018	Ab. Meharajunnise.	Ab. Meharajunnise
18	177N1R0019	K. N. Ramyakrishna	K. N. Ramyakrishna
19	177N1R0020	← Absent →	B. Sri Lakshmi
20	177N1R0021	M. Supriya	M. Supriya
21	177N1R0022	K. Sumi.	K. Sumi.
22	177N1R0023	P. Susmitha	P. Susmitha
Total Number of Students		Twenty one (21)	22
Signature of Invigilator		S. Praveen	A. V. S. Hindabindu
Exams Incharge		S. Venkatesh	S. Venkatesh
Signature of Head of the Institution			

VIJAYA INSTITUTE OF PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU, VIJAYAWADA - 521108.

III B. PHARM/ I SEM (PCI) MID EXAM
ATTENDANCE DAIRY

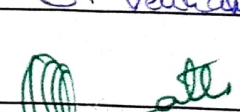
Sub: Pharmacognosy and Phytochemistry-II (BP504T)

S. No	Hall-Ticket No	STUDENT SIGNATURE	
		I MID	II MID
23	177N1R0024	A. Mounika	A. Mounika
24	177N1R0025	T. Deepika	T. Deepika
25	177N1R0026	N. Sowmya	N. Sowmya
26	177N1R0027	V. Deepika	V. Deepika
27	177N1R0028	K. Swetha	← Absent →
28	177N1R0030	B. prasanthi	B. prasanthi
29	177N1R0031	S.uma maheswari	S.uma maheswari
30	177N1R0032	B. Dhana Lakshmi	B. Dhana Lakshmi
31	177N1R0033	T. Prathyusha	T. Prathyusha
32	177N1R0034	B. Poopalatha	Riya
33	177N1R0035	Devi	Devi
34	177N1R0036	K. kavitha	K. kavitha
35	177N1R0037	B.uma Devi	B.uma Devi
36	177N1R0038	Zelva	Zelva
37	177N1R0039	Kavya	P. Kavya
38	177N1R0040	M. Nirmalakumari	M. Nirmalakumari
39	177N1R0041	SK. Sarah	SK. Sarah
40	177N1R0042	K. Hima Bindu	K. Hima Bindu
41	177N1R0043	K. vidya gowri Sri	K. vidya gowri Sri
42	177N1R0044	SK. Rahimunnisa	SK. Rahimunnisa
43	177N1R0045	— Absent —	T. Sandhya Rani
44	177N1R0046	M. Navya	M. Navya
Total Number of Students		21	21
Signature of Invigilator		G. Madhan	S. Karan
Exams Incharge		S. Venkatesh	S. Venkatesh
Signature of Head of the Institution			

VIJAYA INSTITUTE OF PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU, VIJAYAWADA - 521108.

III B. PHARM/ I SEM (PCI) MID EXAM
ATTENDANCE DAIRY

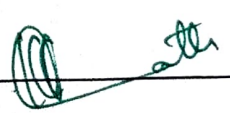
Sub: Pharmacognosy and Phytochemistry-II (BP504T)

S. No	Hall-Ticket No	STUDENT SIGNATURE	
		I MID	II MID
45	177N1R0047	H. Rama Gayathri	H. Rama Gayathri
46	177N1R0048	Ch. Uma devi	Ch. Uma devi.
47	177N1R0049	T. Bhavana	T. Bhavana
48	177N1R0050	D. Bindu	D. Bindu
49	177N1R0051	K. Sri Sowmya.	K. Sri Sowmya.
50	177N1R0052	K. Rajya Lakshmi.	K. Rajya Lakshmi.
51	177N1R0053	K. Ramya	K. Ramya
52	177N1R0054	S. Mounika	S. Mounika.
53	177N1R0055	Sk. Nelke	Sk. Nelke
54	177N1R0056	← Absent →	Shakeera.
55	177N1R0057	Rahamatha	Rahamath
56	177N1R0058	sk. Sabiha Banu	sk. Sabiha Banu
57	177N1R0059	M. J. L. Manasa Reddy	M. J. L. Manasa Reddy.
58	177N1R0060	R. vyshnavi	R. vyshnavi
59	177N1R0062	Gaddam. Prasanthi	Gaddam. Prasanthi.
60	177N1R0063	Sd. Nyma Sulthana.	Sd. Nyma Sulthana.
61	177N1R0064	D. Monika Pushpa.	D. Monika Pushpa.
62	177N1R0065	Neeraja	Neeraja
63	177N1R0066	R. Satya veni.	R. Satya veni
64	177N1R0067	ch. Suneetha	ch. Suneetha
65	177N1R0068	G. Sandhya vani	G. Sandhya vani
66	177N1R0069	P. Chandana	P. Chandana
Total Number of Students		21 presences, 1 absent	22 present
Signature of Invigilator		She	Se
Exams Incharge		S. Venkata apur	S. Venkata apur
Signature of Head of the Institution			

VIJAYA INSTITUTE OF PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU, VIJAYAWADA - 521108.

III B. PHARM/ I SEM (PCI) MID EXAM
ATTENDANCE DAIRY

Sub: Pharmacognosy and Phytochemistry-II (BP504T)

S. No	Hall-Ticket No	STUDENT SIGNATURE	
		I MID	II MID
67	177N1R0070	Geetha.S	Geetha.S
68	177N1R0071	Divya Sree.ch.	Divya Sree.ch.
69	177N1R0072	P. Sindhu	P. Sindhu
70	177N1R0073	A. Harichandana	A. Harichandana
71	177N1R0074	M. Laxmi pramitha	M. Laxmi pramitha
72	177N1R0075	V. Supriya	V. Supriya
73	177N1R0076	M. Anvitha	M. Anvitha
74	177N1R0077	Y. Gayathri	Y. Gayathri
75	177N1R0078	M. Maraba	M. Maraba
76	177N1R0079	P. Sugandhi	P. Sugandhi
77	177N1R0080	O. Koupa Santhi	O. Koupa Santhi
78	177N1R0081	K. Jyothi	K. Jyothi
79	177N1R0082	P. Srishta Rani	P. Srishta Rani
80	177N1R0083	CH. Ramyanjali	CH. Ramyanjali
81	177N1R0084	N. Sailaja	N. Sailaja
82	177N1R0085	ch. kiranmai	ch. kiranmai
83	177N1R0087	K. Mounika	Mounika
84	177N1R0088	M. Renuka	M. Renuka
85	177N1R0089	B. mounika	B. mounika
86	177N1R0090	Sushma	Sushma
87	177N1R0091	K. Manas	K. Manas
Total Number of Students		21 present	21 Present
Signature of Invigilator		J. Ram	A. Ram
Exams Incharge		S. Venkatesh	S. Venkatesh
Signature of Head of the Institution			

Model of Evaluated Mid Exam
Answer Script

177NIR0012

VIJAYA INSTITUTE OF PHARMACEUTICAL SCIENCES FOR WOMEN

Enikepadu, Vijayawada - 521108

III B. Ph / I Sem II Mid Examination

Time: 30 Min Sub: Pharmacognosy & Phytochemistry-II (BP504T) Marks: 10M

Multiple choice questions

1×10=10M

1. The extraction method in which plant material is soaked in a solvent for a definite period of time is
a. decoction b. percolation c. maceration d. infusion [c]
2. Continuous contact with hot menstrum or solvent takes place in
a. soxhlation b. decoction c. cold extraction [a]
3. Spectroscopic phytochemical screening methods provide complete information regarding [d]
a. basic structure of compounds b. functional groups present c. configuration of the compound d. all
4. ----- is widely used for the isolation and separation of compounds [c]
a. chromatography b. steam distillation c. fractional distillation d. none
5. The isolation technique used for the purification or isolation of compounds which are volatile in nature [c]
a. sublimation b. fractional liberation c. fractional distillation d. fractional crystallization
6. Hydro distillation is carried out if the volatile oil is to be extracted from [b]
a. flower petals b. leaves c. seeds d. roots
7. The process of detection of various constituents in a plant extract is known as ----- [b]
a. extract b. phytochemical screening c. screen d. distillation
8. ----- is defined as the process of separating active constituents from a crude drug by treating it with suitable solvent [a]
a. extraction b. phytochemical screening c. screen d. distillation
9. Quinine + ----- gives blue fluorescence under U.V. [a]
a. conc. sulphuric acid b. HCl c. iodine d. none
10. ----- is used for the separation of plant constituents which are less volatile in nature [b]
a. HPTLC b. HPLC c. GC d. NMR

10

S.R.K. FOUNDATION'S
**VIJAYA INSTITUTE OF
PHARMACEUTICAL SCIENCES FOR WOMEN**

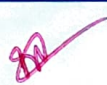
ENIKEPADU, VIJAYAWADA



2019 - 2020

SESSIONAL BOOK

Name : Chennu. Jyeshthika
Class : B pharmacy II year (A section)
Roll No. : 177NIR0012
Subject : Pharmacognosy & phytochemistry-II

Internal	Objective	Subjective	Assignment	Total	Staff Sign	Student Sign
I	10	19		29		ch. jyeshthika
II	10	19		29		ch. jyeshthika

Final Average : 29

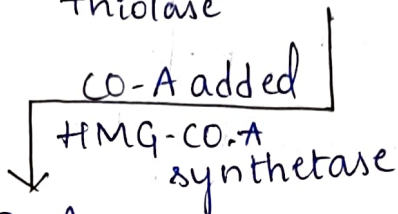
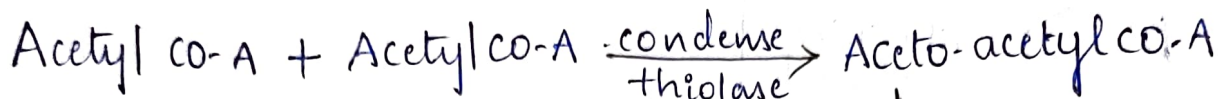
Staff Sign



HOD Sign

EASSY QUESTION:

2. " Acetate Mevalonate pathway / Mevalonic acid " pathway:

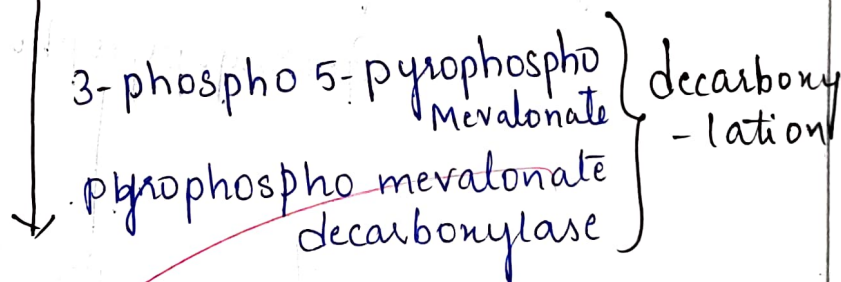


HMG Co-A

[3-hydroxy 3-methyl glutaryl Co-A]

HMG Co-A reductase

Mevalonic acid



Isoprenyl pyrophosphate
(IPP) C5

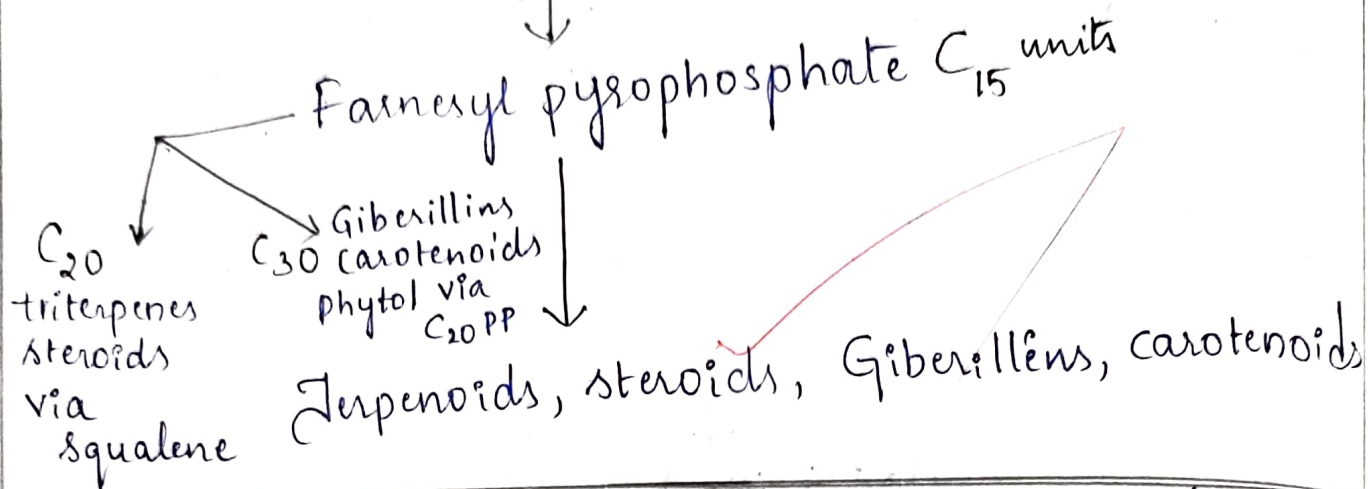
fused

Isoprenyl
pyrophosphate
isomerase

Dimethyl allyl pyro
phosphate
(DPP)

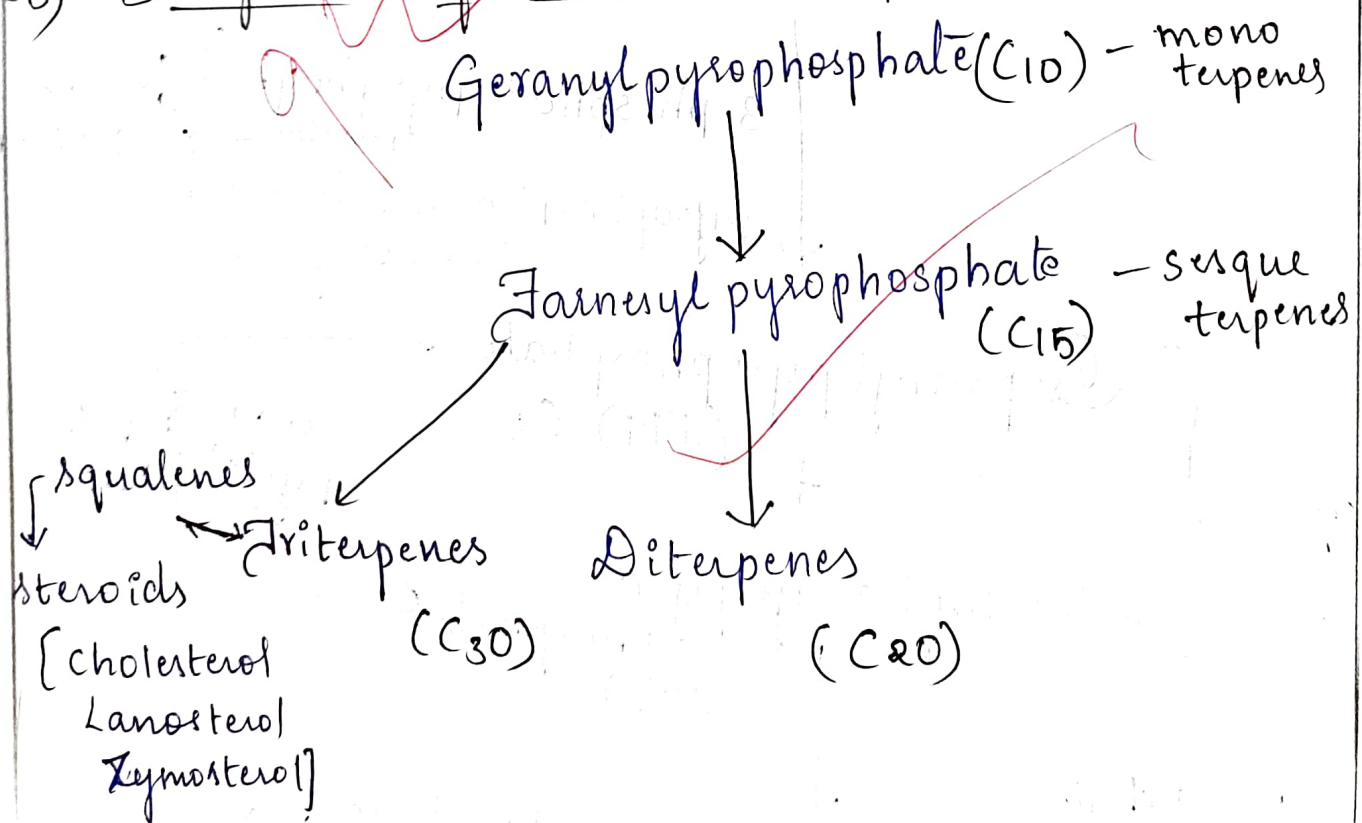
straight chain,
cyclic, monocyclic,
bicyclic,
sesquiterpenes

Geranyl pyrophosphate (C10)



"Mevalonic acid pathway gives" $\Rightarrow$ Terpenoids, steroids, lipids, Giberillins, carotenoids.

2b) Biosynthesis of steroids & Isoprenoids:



SHORT ANSWERS:

II.

1a) "Phenylpropanoids, flavanoids & lignans:"

[phytoalexins]

↓
stress induced compounds

* Phenyl propanoids:

⇒ These are the diverse group of organic compounds which are obtained from plant amino acids [phenyl alanine, tyrosine]

⇒ They possess aromatic ring with "3 carbon propene tail."

⇒ They provide numerous health benefits

⇒ "Coumaric acid" is the intermediate in biosynthesis of phenyl propanoids, flavanoids, lignans.

⇒ They are essential compounds, provides protection against herbivores, UV rays & pathogens and mediate plant pollen interaction as ~~floral~~ pigments and scented compounds.

Eg: Eugenol, Saffrole, caffeic acid, Charicol, furoic acid, cinnamic acid.

* Flavanoids:

- ⇒ These are coloured pigments which produces colours like red, yellow, violet etc.
- ⇒ They contain two "C₆ rings" connected by "C₃ bridge"
- ⇒ It produces various colours
Eg: Naringin, anthocyanidin, hesperidine
- Eg: Pterocarpane, quercetin, campherol.

Lignans:

- ⇒ These are present in secondary thickening of the cell wall. It is bounded with covalent bond with cellulose & hemicellulose.
- ⇒ Lignans are chemical substance present in sclerenchymatous.
- ⇒ Increase lignification lowers the virus spread.
- ⇒ Phenylpropanoids, flavanoids and Lignins are stress induced compounds called "phytoalexins"
- Eg: Rue, tea.

Eg:

RUE

* Synonym: Garden Rue, herby grass.

* Biological source: Dried herb of "Ruta graveolens" belongs to family 'Rutacea'

* Macroscopy:

It is erect, scented herb.

- Colour : bluishgreen

- Odour : characteristic, aromatic

- Taste : Pungent

* Chemical constituents:

Flavanoid glycosides — Rutin
Ruturin
Naphthoharniarin

Volatile oils — limonene
Cineole
Caryophyllene

* Use:

⇒ It is used as capillary protectant

⇒ Antitussive

⇒ Spasmolytic

⇒ Emmenagogue (increase menstrual flow)

14)

"OPIUM" [Narcotic] (alkaloid)

- * Synonym: Raw opium, Poppy seeds.
- * Biological source: Dried latex obtained by incisions on unripe capsules of "Papaver somniferum"
Family - "Papaveraceae".
- * Geographical source: India, Pakistan, China, Iran
- * History: It is a narcotic drug bought to India by Alexander in 327 BC
⇒ This narcotic drug is governed by government in country. It is under the control of Narcotic & psychotropic substances act 1985.
⇒ It is erect, rarely branched, oblong leaves with bluish white large flowers
⇒ 54000 hectares of land is under control of government in MP, UP, Rajasthan

* Cultivation and collection:

Climate: Temperate, sub-tropical weather, extreme cold, frost.

Best conditions include cool weather without frozen temperature, cloudy & sufficient sunshine.

- ⇒ Grown in November - March.
- ⇒ Propagated by seeds mixing with soil
- ⇒ Well fertile, well drained loamy soil with fine sand.
- ⇒ Soil contains organic & nitrogens.
- ⇒ pH of soil - 7
- ⇒ Weedicides are used
- ⇒ Insecticides are used to prevent from insects.
- ⇒ Flowering starts within 3-4 months & capsules attain maturity between 15-20 days
- ⇒ At maturity maximum latex is obtained.
- ⇒ Fruits changes colour from dark green to light green.
- ⇒ Capsules are incised vertically by

using needle like instruments called
"Nush toor"

⇒ Latex is thickened due to cold weather

⇒ It is scrapped by using iron instruments called "Charpala"

⇒ Capsules are dried & seeds are separated by beating

⇒ Latex is extracted and further proceeds in government Opium industry in Ghazipur

Macroscopy:

* Colour - dark brown

* Odour - strongly, characteristic, aromatic

* Taste - bitter

* Shape - cuboidal

* Weight - 200gm

5-10kg is packed in tissue paper

- Brittle & plastic

Chemical constituents:

Alkaloids obtained from amino acid

phenyl alanine



benzyl isoquinoline



Narcotine, papaverin
Narcin

Tyrosine



phenanthrene



Morphine,
Codeine,
Thebaine

Chemical test:

⇒ Alkaloids generally exist as salts.

⇒ Salts are soluble in polar solvents (water)
& free bases soluble in non-polar (CHCl_3)

Exception: Caffeine (free base) — Soluble in polar solvent.

Meconic acid test:

1) Opium + water → dissolves → filter
↓
filtrate
↓
add FeCl_3
↓
Reddish purple
add HCl
↓
Colour persists

Indicates presence of meconic acid.

Test for Morphine, Codiene, Papaverine

* Morphine + sprinkle on HNO_3 $\longrightarrow$ Orangered colour
 $\downarrow$
presence of morphine

* Morphine + Sprinkle on HNO_3 $\longrightarrow$ Other than Orangered
 $\downarrow$
presence of Codiene

* Morphine + pot. Ferri cyanide
+ FeCl_3 $\longrightarrow$ bluish green colour
 $\downarrow$
presence of Morphine

* Other than bluish green colour
 $\downarrow$
indicates presence of ~~codiene~~.

Test for papaverine

Papaverine in HCl $\longrightarrow$ lemon yellow colour
with K_4FeCN_6

Uses:

⇒ Narotine used as cough depressant.

* Morphine:

Used as potent narcotic analgesic

Causes respiratory depressant.

* Codine:

Used as antitusive, mild analgesic

* Papaverine:

Used as smooth muscle relaxant

* Opium:

Used as Hypnotic, sedative, analgesic.

3a) "BLACK CATECHU"

[tannin]

Synonym: Kattha, cutch, khadir

Biological source: Dried aqueous extract obtained from heart wood of

"Acacia catechu / Acacia chandea"

Family: Leguminaceae

History: When it is used with bettle leaf posses

* astringent → [stops bleeding]

* adjunct → enhance colour - women used to colour their feet.

Preparation:

* Traditional method:

Heartwood is collected, cut into small pieces
& boiled in an earthen vessel



It is fired with sapwood



Cool it and transfer into rectangular
pits which is covered with sand & clay at
the bottom.



Keep it aside for several days



Two parts are obtained

↓
Liquid / semi solid mass
(Cutch)

non-medicinal



absorbed by clay

↓
Solid mass
(Katha)

↓
medicinal
↓
separated

↓
mould in to
blocks

* Modern method:-

Heart wood is collected by felling the trees and chopped into small chips.



Put in extractor



Steam is passed



Concentrate the extract in vacuum



Cool & keep it in refrigerator



centrifuge

Isolate the kattha & mould into desired shapes & sizes



Concentrate the mother liquor to get catch (semi-solid mass)

Macroscopy:

- * Colour — brown-black
- * Odour — None
- * taste — Astringent
- * shape — cuboidal & rectangular brick shape

* Chemical constituents:

Tannins $\longrightarrow$ Condensed tannins

$\downarrow$
Flavanoid type

* Acacatechin (chief chemical constituent)

$\downarrow$ oxidised in HOH
Catechu tannic acid

- Catechu red
- quercitin
- Gums
- No chlorophyll
- No fluorescent substances

* Chemical tests

General test

* Goldbeaters skin test:

* catechu + $FeCl_3 \longrightarrow$ gives bluish black / brownish green
 $\downarrow$
hydrolysed

Specific test:

1) Catechu + Vanillin + HCl $\longrightarrow$ red/pink colour
 $\downarrow$
presence of catechin

2) Extract + *conc. HCl $\longrightarrow$ liberates phloroglucinol
 $\downarrow$
it burns along with lignin in purple/magenta colour.

Procedure:

$\Rightarrow$ Take extract on matchstick

Et add conc. HCl

$\downarrow$
Bring near to flame

$\downarrow$
it burns in purple/magenta colour

$\downarrow$
matchstick wood

attains pink colour

3) Extract + limewater $\longrightarrow$ brown colour

$\downarrow$
upon standing

$\downarrow$
appears red colour

4) Extract + Ferric ammonium Sulphate

$\downarrow$
gives green colour $\longrightarrow$ add NaOH

$\downarrow$
gives purple colour

Uses:

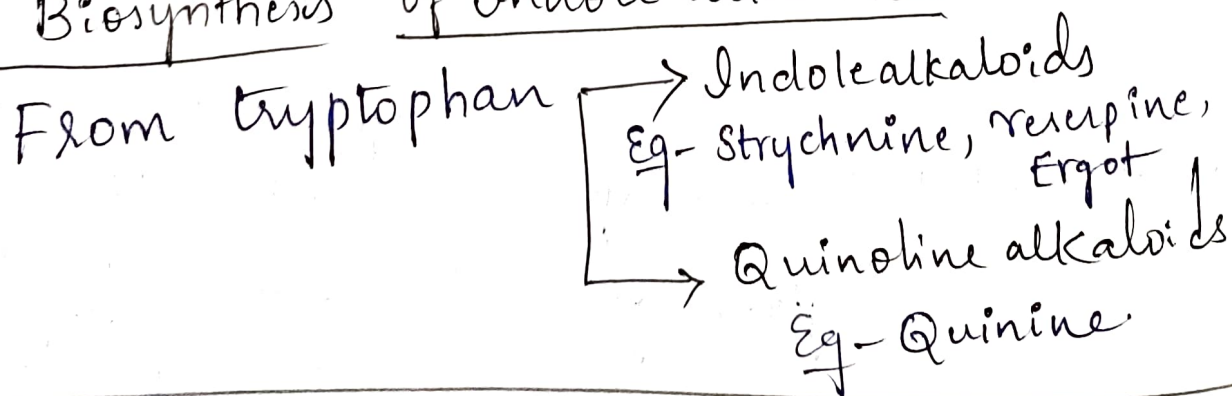
* Kattha:

- ⇒ Used as an astringent - in case of burns, skin eruptions, ulcers.
- ⇒ Used to treat cough, diarrhoea, dysentery, digestion, & cooling effect.
- ⇒ Used as adjuvant when taken along with beetle leaf which enhances colour. Women used to colour their feet.

* Cutch:

- ⇒ It is a non-medicinal agent.
- ⇒ It is used as dyes & colouring agent.
- ⇒ Softens water & reduces viscosity in the grilled mud.
- ⇒ Protective to fish nets.

3b) Biosynthesis of Indole alkaloids:



From tryptophan + Monoterpene precursors
(Corynanthe ; Aspidosperm)
Ibago

tryptamine

Mevalonic acid participation

Vincoside

Corynantheal

Quinine
(Quinoline alkaloid)

Indole alkaloids

Ajmaline

Rescinamine

Reserpine
serpentine

strychnine
(Nuxvomica)

ergot alkaloids
(ergotamine,
ergometrine)

lysergic acid derivatives

↑
Ergoclovin

↑
Lanocavin

↑
Chanoclavin

↑
Dimethyl allyl
tryptophan

Mevalonic
acid
Pathway

→ Dimethyl
allyl
pyrophosphate

good

W

19

20

21

**Mid exam marks scored by students
are entered in the Mother register**

III. B. pharmacy- I semester

Subject : pharmacognosy and phytochemistry-II [BP504T] 17

S.NO	Name of the Subject	Register No.	I MID					II MID					practicals *		Remarks
			mcqs	Sub	Sessional marks	Continuous marks	Total	mcqs	Sub	Sessional marks	Continuous marks	Total	I mid	II mid	
1	M. Hema latha	177NIR000 1	10	18	14	10	24	9	17	13	10	23	14	15	
2	A. Manisha gowd	177NIR000 2	10	19	15	10	25	9	19	14	10	24	14	14	
3	D. Mounica choudary	177NIR000 3	10	18	14	10	24	10	19	15	10	25	14	14	
4	T. Harila	177NIR000 4	4	16	10	10	20	9	17	13	10	23	14	14	
5	VGN S. Sunethri	177NIR000 5	10	19	15	10	25	9	19	14	10	24	14	15	
6	T. pavani priya	177NIR000 6	10	19	15	10	25	9	19	14	10	24	15	15	
7	Ch. Bhargavi	177NIR000 7	10	19	15	10	25	9	19	14	10	24	15	14	
8	M. Swetha manasa	177NIR000 8	9	19	14	10	24	9	19	14	10	24	14	14	

9	K. manasa	177NIR000 9	10	19	15	10	25	10	19	15	10	25	14	14
10	V. Ramya Sri	177NIR000 11	4	18	11	10	21	8	17	12	10	22	13	14
11	ch. Greeshmika	177NIR00 12	10	19	15	10	25	10	19	15	10	25	14	15
12	Gr. Divya Sri	177NIR00 13	10	19	15	10	25	10	19	15	10	25	14	14
13	Y. Sushma	177NIR00 14	10	18	14	10	24	9	19	14	10	24	14	14
14	V. Jyothirmai	177NIR00 15	10	19	15	10	25	10	19	15	10	25	14	14
15	M. Jahnavi Sai	177NIR00 16	9	19	14	10	24	10	19	15	10	25	14	14
16	md. Ayesha	177NIR00 17	3	19	11	10	21	10	19	15	10	25	14	14
17	Ad. meharajuni Sa	177NIR00 18	4	19	12	10	22	10	19	15	10	25	13	14
18	K. Naga Ramya Prishma	177NIR00 19	10	19	15	10	25	9	19	14	10	24	15	15

S.No	Name of the student	Register no	I MID					II MID					practicals		Remarks
			MCQs	Sub	Sessional marks	continuous mode	Total	MCQs	Sub	Sessional marks	continuous mode	Total	I mid	II mid	
19	B. Srilaxmi	177 NIR 00 20	Ab	Ab	Ab	10	10	9	19	14	10	24	12	14	
20	M. Supriya	177 NIR 00 21	7	19	13	10	23	10	19	15	10	25	13	13	
21	K. Sumi	177 NIR 00 22	10	18	14	10	24	10	19	15	10	25	13	14	
22	P. Susmitha	177 NIR 00 23	10	19	15	10	25	10	19	15	10	25	14	15	
23	A. Mounika	177 NIR 00 24	10	19	15	10	25	9	19	14	10	24	14	15	
24	T. Deepika	177 NIR 00 25	10	19	15	10	25	9	19	14	10	24	14	15	
25	N. Sowmya	177 NIR 00 26	8	19	14	10	24	10	19	15	10	25	14	15	
26	V. Deepika	177 NIR 00 27	8	19	14	10	24	10	18	14	10	24	13	14	

27	K. Swetha	177NIR00 28	8	18	13	10	24	Ab	Ab	Ab	10	10	14	5
28	B. prasanthi	177NIR 00 30	8	18	13	10	23	10	19	15	10	25	14	14
29	S. uma maheswari	177NIR 00 31	10	19	15	10	25	9	19	14	10	24	14	15
30	B. Dhana laxmi	177NIR 00 32	9	19	14	10	24	9	19	14	10	24	14	14
31	T. prathyusha	177NIR 00 33	7	18	13	10	23	7	19	13	10	23	14	14
32	B. Roopalatha	177NIR00 34	10	18	14	10	24	10	19	15	10	25	13	14
33	Ch. Divyanyali	177NIR 00 35	8	19	14	10	24	10	19	15	10	25	14	14
34	K. Kavitha	177NIR00 36	8	18	13	10	23	10	19	15	10	25	13	5
35	B. umadevi	177NIR 00 37	8	14	12	10	22	8	12	10	10	20	13	14
36	Sk. Zahara	177NIR00 38	10	19	15	10	25	8	19	14	10	24	14	14

S.No	Name of the student	Register no	I MID					II MID					practicals		Remarks
			mcqs	Sub	Sessional marks	continuous mode	Total	mcqs	Sub	Sessional marks	continuous mode	Total	in mid	ii mid	
37	P. Kavya	177NIR 00 39	4	17	11	10	21	8	17	12	10	24	13	13	
38	M. Nirmala kumari	177NIR 00 40	9	19	14	10	24	10	19	15	10	25	14	13	
39	K. Sayeeda Sarah	177NIR 00 41	10	17	14	10	24	10	19	15	10	25	14	14	
40	K. Hima Bindu	177NIR 00 42	9	18	14	10	24	10	18	14	10	24	14	15	
41	K. Vidya gowri Sri	177NIR 00 43	2	18	10	10	20	10	18	14	10	24	13	14	
42	Sk. Rahimunnisa	177NIR 00 44	4	18	11	10	21	10	18	14	10	24	13	14	
43	T. Sandhya Rani	177NIR 00 45	Ab	Ab	Ab	10	10	10	15	13	10	23	13	12	
44	M. Navya	177NIR 00 46	10	19	15	10	25	9	19	14	10	24	14	15	

45	M. Rama Crayatri	177NIR00	47	3	12	8	10	18	9	15	12	10	22	13	13
46	Ch. Uma Devi	177NIR00	48	3	19	11	10	21	10	19	15	10	25	12	13
47	T. Bhavana	177NIR00	49	7	9	8	10	18	6	14	10	10	20	12	13
48	D. Bindu choudary	177NIR00	50	8	18	13	10	23	9	19	14	10	24	14	14
49	K. Sree Somya	177NIR00	51	5	12	9	10	19	10	18	14	10	24	14	12
50	K. Rajya laxmi	177NIR00	52	7	17	12	10	22	10	17	14	10	24	14	15
51	K. Ramya	177NIR00	53	8	16	12	10	22	6	13	10	10	20	14	13
52	S. Mounica	177NIR00	54	6	17	12	10	22	10	12	11	10	21	13	12
53	Sk neha	177NIR00	55	7	19	13	10	23	9	15	12	10	22	14	14
54	Sk. Shakirunnisa	177NIR00	56	Ab	Ab	Ab	10	10	7	14	11	10	21	13	13

S.no	Name of the student	Register no	I MID					II MID					practicals		Remarks
			MCRS	Sub	sessional marks	continuous mode	Total	MCRS	Sub	sessional marks	continuous mode	Total	inid	mid	
55	BB Rahamata	177NIR00 57	6	17	12	10	22	8	18	13	10	23	14	14	
56	Sk. Sabiha Bhanu	177NIR00 58	8	19	14	10	24	10	17	14	10	24	13	13	
57	MFL Manasa Reddy	177NIR00 59	2	18	10	10	20	9	17	13	10	23	13	13	
58	R. vyshnavi	177NIR00 60	3	14	9	10	19	10	16	13	10	23	13	13	
59	G. prasanthi	177NIR00 62	8	17	13	10	23	8	17	13	10	23	14	13	
60	Sd. Nyma Sultana	177NIR00 63	10	19	15	10	25	9	19	14	10	24	14	15	
61	D. Mounica pushpa	177NIR00 64	9	15	12	10	22	7	15	11	10	21	5	13	
62	N. Neeraja	177NIR00 65	10	18	14	10	24	10	17	14	10	24	14	14	

63	R. Salya Veni	177NIR00 66	10	18	14	10	24	10	19	15	10	25	14	14
64	Ch. Suneetha	177NIR00 67	10	19	15	10	25	10	19	15	10	25	14	14
65	Gr. Sandhya Vani	177NIR00 68	9	16	13	10	23	8	18	13	10	23	13	13
66	p. Chandana	177NIR00 69	8	15	12	10	22	7	10	9	10	19	13	12
67	S. Greetha	177NIR00 70	8	19	14	10	24	10	17	14	10	24	13	14
68	ch. Divya Sri	177NIR00 71	10	19	15	10	25	10	19	15	10	25	14	15
69	p. Sindhu	177NIR00 72	8	19	14	10	24	10	17	14	10	24	14	14
70	A. Harichandana	177NIR00 73	8	19	14	10	24	10	18	14	10	24	14	14
71	m. Laxmi pranitha	177NIR00 74	10	19	15	10	25	10	16	13	10	23	14	13
72	V. Supriya	177NIR00 75	8	19	14	10	24	9	19	14	10	24	14	14

Sl. No.	Name of student	Register no.	I MID					II MID					practicals		Remarks
			MCQs	Sub	Sessional marks	Continuing mode	Total	MCQs	Sub	Sessional marks	Continuing mode	Total	1 mid	II mid	
73	M. Anvitha	177NIR00 76	8	17	13	10	23	10	19	15	10	25	14	15	
74	Y. Gayatri	177NIR00 77	8	18	13	10	23	10	14	12	10	22	14	14	
75	M. Manasa	177NIR00 78	9	12	11	10	21	9	15	12	10	22	5	14	
76	P. Sugandhi	177NIR00 79	10	19	15	10	25	9	19	14	10	24	14	13	
77	O. Krupa Santhi	177NIR00 80	10	19	15	10	25	9	18	14	10	24	14	15	
78	K. Jyothi	177NIR00 81	8	18	13	10	23	8	16	12	10	22	5	13	
79	P. Sirisha Rani	177NIR00 82	5	19	15	10	25	7	16	12	10	22	5	15	
80	Ch. Ramyanjali	177NIR00 83	10	14	12	10	22	10	10	10	10	20	14	13	

81	N. Sailaja	177NIR00 84	10	19	15	10	25	9	19	14	10	24	14	15
82	ch. Kizanmai	177NIR00 85	4	18	11	10	21	5	11	8	10	18	13	13
83	K. mounica	177NIR00 87	5	10	8	10	18	5	18	12	10	22	12	13
84	m. Renuca	177NIR00 88	8	17	13	10	23	6	15	11	10	21	14	14
85	B. mounika	177NIR00 89	8	17	13	10	23	7	15	11	10	21	13	13
86	D. Sushma	177NIR00 90	1	3	2	10	12	6	14	10	10	24	13	13
87	K. manasa	177NIR00 91	7	16	12	10	22	3	17	10	10	20	13	13
			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Entered by:

m. Vani

S. Venkatesh
Exam Section Incharge


PRINCIPAL

VIJAYA INSTITUTE

PHARMACEUTICAL SCIENCES FOR WOMEN
ENKEPADU VIJAYAWADA 52° 10R

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1. Upload CSV format files Only.

2. Frame The CSV Sheets With The Following Columns.

- o Column 1 :: College Code (cc) Ex:34 ✓
- o Column 2 :: Hallticket no. (htno) Ex:16345R0123 ✓
- o Column 3 :: Subject code (subcode) ✓
- o Column 4 :: Continuous Mode Marks (cm1) ✓
- o Column 5 :: Sessional Exam Marks (se1) ✓
- o Column 6 :: Regulation (regulation) ✓
- o Column 7 :: Year ✓
- o Column 8 :: Semester ✓
- o Column 9 :: Subject Type (sub_type) ✓

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3300

Note: - If The Subtype is null then check your subject code...

CC	HTNO	SUBCODE	CMI	SEI	REGULATION	YEAR	SEMESTER	SUB_TYPE
7N	177N1R0001	BP501T	10	12	PCI	3	1	T
7N	177N1R0001	BP502T	10	13	PCI	3	1	T
7N	177N1R0001	BP503T	10	11	PCI	3	1	T
7N	177N1R0001	BP504T	10	14	PCI	3	1	T
7N	177N1R0001	BP505T	10	14	PCI	3	1	T
7N	177N1R0001	BP506P	5	9	PCI	3	1	L
7N	177N1R0001	BP507P	5	9	PCI	3	1	L
7N	177N1R0001	BP508P	5	9	PCI	3	1	L
7N	177N1R0002	BP501T	10	15	PCI	3	1	T
7N	177N1R0002	BP502T	10	13	PCI	3	1	T
7N	177N1R0002	BP503T	10	13	PCI	3	1	T
7N	177N1R0002	BP504T	10	15	PCI	3	1	T
7N	177N1R0002	BP505T	10	15	PCI	3	1	T
7N	177N1R0002	BP506P	5	10	PCI	3	1	L
7N	177N1R0002	BP507P	5	9	PCI	3	1	L
7N	177N1R0002	BP508P	5	9	PCI	3	1	L
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7N	177N1R0003	BP506P	5	9	PCI	3	1	L
7N	177N1R0003	BP507P	5	8	PCI	3	1	L
7N	177N1R0003	BP508P	5	9	PCI	3	1	L
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7N	177N1R0006	BP504T	10	15	PCI	3	1	T

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7N	177N1R0006	BP507P	5	9	PCI	3	1	L
7N	177N1R0006	BP508P	5	10	PCI	3	1	L
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7N	177N1R0013	BP505T	10	15	PCI	3	1	T
7N	177N1R0013	BP506P	5	10	PCI	3	1	L
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7N	177N1R0018	BP506P	5	8	PCI	3	1	L
7N	177N1R0018	BP507P	5	7	PCI	3	1	L
7N	177N1R0018	BP508P	5	8	PCI	3	1	L

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7N	177N1R0031	BP504T	10	15	PCI	3	1	T

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7N	177N1R0031	BP506P	5	9	PCI	3	1	L
7N	177N1R0031	BP507P	5	8	PCI	3	1	L
7N	177N1R0031	BP508P	5	9	PCI	3	1	L
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7N	177N1R0035	BP504T	10	14	PCI	3	1	T
7N	177N1R0035	BP505T	10	13	PCI	3	1	T
7N	177N1R0035	BP506P	5	9	PCI	3	1	L
7N	177N1R0035	BP507P	5	8	PCI	3	1	L
7N	177N1R0035	BP508P	5	9	PCI	3	1	L
7N	177N1R0036	BP501T	10	8	PCI	3	1	T
7N	177N1R0036	BP502T	10	11	PCI	3	1	T
7N	177N1R0036	BP503T	10	10	PCI	3	1	T
7N	177N1R0036	BP504T	10	13	PCI	3	1	T
7N	177N1R0036	BP505T	10	13	PCI	3	1	T
7N	177N1R0036	BP506P	5	9	PCI	3	1	L
7N	177N1R0036	BP507P	5	8	PCI	3	1	L
7N	177N1R0036	BP508P	5	8	PCI	3	1	L
7N	177N1R0037	BP501T	10	8	PCI	3	1	T
7N	177N1R0037	BP502T	10	10	PCI	3	1	T

7N	177N1R0037	BP503T	10	9	PCI	3	1	T
7N	177N1R0037	BP504T	10	12	PCI	3	1	T
7N	177N1R0037	BP505T	10	14	PCI	3	1	T
7N	177N1R0037	BP506P	5	8	PCI	3	1	L
7N	177N1R0037	BP507P	5	7	PCI	3	1	L
7N	177N1R0037	BP508P	5	8	PCI	3	1	L
7N	177N1R0038	BP501T	10	11	PCI	3	1	T
7N	177N1R0038	BP502T	10	13	PCI	3	1	T
7N	177N1R0038	BP503T	10	11	PCI	3	1	T
7N	177N1R0038	BP504T	10	15	PCI	3	1	T
7N	177N1R0038	BP505T	10	14	PCI	3	1	T
7N	177N1R0038	BP506P	5	9	PCI	3	1	L
7N	177N1R0038	BP507P	5	8	PCI	3	1	L
7N	177N1R0038	BP508P	5	9	PCI	3	1	L
7N	177N1R0039	BP501T	10	6	PCI	3	1	T
7N	177N1R0039	BP502T	10	10	PCI	3	1	T
7N	177N1R0039	BP503T	10	11	PCI	3	1	T
7N	177N1R0039	BP504T	10	11	PCI	3	1	T
7N	177N1R0039	BP505T	10	11	PCI	3	1	T
7N	177N1R0039	BP506P	5	8	PCI	3	1	L
7N	177N1R0039	BP507P	5	8	PCI	3	1	L
7N	177N1R0039	BP508P	5	8	PCI	3	1	L
7N	177N1R0040	BP501T	10	8	PCI	3	1	T
7N	177N1R0040	BP502T	10	11	PCI	3	1	T
7N	177N1R0040	BP503T	10	10	PCI	3	1	T
7N	177N1R0040	BP504T	10	14	PCI	3	1	T
7N	177N1R0040	BP505T	10	12	PCI	3	1	T
7N	177N1R0040	BP506P	5	7	PCI	3	1	L
7N	177N1R0040	BP507P	5	8	PCI	3	1	L
7N	177N1R0040	BP508P	5	9	PCI	3	1	L
7N	177N1R0041	BP501T	10	7	PCI	3	1	T
7N	177N1R0041	BP502T	10	12	PCI	3	1	T
7N	177N1R0041	BP503T	10	10	PCI	3	1	T
7N	177N1R0041	BP504T	10	14	PCI	3	1	T
7N	177N1R0041	BP505T	10	12	PCI	3	1	T
7N	177N1R0041	BP506P	5	8	PCI	3	1	L
7N	177N1R0041	BP507P	5	8	PCI	3	1	L
7N	177N1R0041	BP508P	5	9	PCI	3	1	L
7N	177N1R0042	BP501T	10	11	PCI	3	1	T
7N	177N1R0042	BP502T	10	11	PCI	3	1	T
7N	177N1R0042	BP503T	10	10	PCI	3	1	T
7N	177N1R0042	BP504T	10	14	PCI	3	1	T
7N	177N1R0042	BP505T	10	13	PCI	3	1	T
7N	177N1R0042	BP506P	5	9	PCI	3	1	L
7N	177N1R0042	BP507P	5	9	PCI	3	1	L
7N	177N1R0042	BP508P	5	9	PCI	3	1	L

7N	177N1R0043	BP501T	10	9	PCI	3	1	T
7N	177N1R0043	BP502T	10	10	PCI	3	1	T
7N	177N1R0043	BP503T	10	8	PCI	3	1	T
7N	177N1R0043	BP504T	10	10	PCI	3	1	T
7N	177N1R0043	BP505T	10	10	PCI	3	1	T
7N	177N1R0043	BP506P	5	7	PCI	3	1	L
7N	177N1R0043	BP507P	5	8	PCI	3	1	L
7N	177N1R0043	BP508P	5	8	PCI	3	1	L
7N	177N1R0044	BP501T	10	6	PCI	3	1	T
7N	177N1R0044	BP502T	10	11	PCI	3	1	T
7N	177N1R0044	BP503T	10	13	PCI	3	1	T
7N	177N1R0044	BP504T	10	11	PCI	3	1	T
7N	177N1R0044	BP505T	10	11	PCI	3	1	T
7N	177N1R0044	BP506P	5	9	PCI	3	1	L
7N	177N1R0044	BP507P	5	8	PCI	3	1	L
7N	177N1R0044	BP508P	5	8	PCI	3	1	L
7N	177N1R0045	BP501T	10	-1	PCI	3	1	T
7N	177N1R0045	BP502T	10	-1	PCI	3	1	T
7N	177N1R0045	BP503T	10	-1	PCI	3	1	T
7N	177N1R0045	BP504T	10	-1	PCI	3	1	T
7N	177N1R0045	BP505T	10	-1	PCI	3	1	T
7N	177N1R0045	BP506P	5	-1	PCI	3	1	L
7N	177N1R0045	BP507P	5	-1	PCI	3	1	L
7N	177N1R0045	BP508P	5	8	PCI	3	1	L
7N	177N1R0046	BP501T	10	10	PCI	3	1	T
7N	177N1R0046	BP502T	10	12	PCI	3	1	T
7N	177N1R0046	BP503T	10	10	PCI	3	1	T
7N	177N1R0046	BP504T	10	15	PCI	3	1	T
7N	177N1R0046	BP505T	10	12	PCI	3	1	T
7N	177N1R0046	BP506P	5	9	PCI	3	1	L
7N	177N1R0046	BP507P	5	8	PCI	3	1	L
7N	177N1R0046	BP508P	5	9	PCI	3	1	L
7N	177N1R0047	BP501T	10	6	PCI	3	1	T
7N	177N1R0047	BP502T	10	10	PCI	3	1	T
7N	177N1R0047	BP503T	10	6	PCI	3	1	T
7N	177N1R0047	BP504T	10	8	PCI	3	1	T
7N	177N1R0047	BP505T	10	12	PCI	3	1	T
7N	177N1R0047	BP506P	5	8	PCI	3	1	L
7N	177N1R0047	BP507P	5	7	PCI	3	1	L
7N	177N1R0047	BP508P	5	8	PCI	3	1	L
7N	177N1R0048	BP501T	10	6	PCI	3	1	T
7N	177N1R0048	BP502T	10	9	PCI	3	1	T
7N	177N1R0048	BP503T	10	6	PCI	3	1	T
7N	177N1R0048	BP504T	10	11	PCI	3	1	T
7N	177N1R0048	BP505T	10	10	PCI	3	1	T
7N	177N1R0048	BP506P	5	7	PCI	3	1	L

7N	177N1R0048	BP507P	5	6	PCI	3	1	L
7N	177N1R0048	BP508P	5	7	PCI	3	1	L
7N	177N1R0049	BP501T	10	8	PCI	3	1	T
7N	177N1R0049	BP502T	10	11	PCI	3	1	T
7N	177N1R0049	BP503T	10	10	PCI	3	1	T
7N	177N1R0049	BP504T	10	8	PCI	3	1	T
7N	177N1R0049	BP505T	10	10	PCI	3	1	T
7N	177N1R0049	BP506P	5	7	PCI	3	1	L
7N	177N1R0049	BP507P	5	7	PCI	3	1	L
7N	177N1R0049	BP508P	5	7	PCI	3	1	L
7N	177N1R0050	BP501T	10	10	PCI	3	1	T
7N	177N1R0050	BP502T	10	12	PCI	3	1	T
7N	177N1R0050	BP503T	10	10	PCI	3	1	T
7N	177N1R0050	BP504T	10	13	PCI	3	1	T
7N	177N1R0050	BP505T	10	14	PCI	3	1	T
7N	177N1R0050	BP506P	5	9	PCI	3	1	L
7N	177N1R0050	BP507P	5	9	PCI	3	1	L
7N	177N1R0050	BP508P	5	9	PCI	3	1	L
7N	177N1R0051	BP501T	10	8	PCI	3	1	T
7N	177N1R0051	BP502T	10	9	PCI	3	1	T
7N	177N1R0051	BP503T	10	6	PCI	3	1	T
7N	177N1R0051	BP504T	10	9	PCI	3	1	T
7N	177N1R0051	BP505T	10	9	PCI	3	1	T
7N	177N1R0051	BP506P	5	7	PCI	3	1	L
7N	177N1R0051	BP507P	5	8	PCI	3	1	L
7N	177N1R0051	BP508P	5	9	PCI	3	1	L
7N	177N1R0052	BP501T	10	8	PCI	3	1	T
7N	177N1R0052	BP502T	10	10	PCI	3	1	T
7N	177N1R0052	BP503T	10	9	PCI	3	1	T
7N	177N1R0052	BP504T	10	12	PCI	3	1	T
7N	177N1R0052	BP505T	10	11	PCI	3	1	T
7N	177N1R0052	BP506P	5	8	PCI	3	1	L
7N	177N1R0052	BP507P	5	8	PCI	3	1	L
7N	177N1R0052	BP508P	5	9	PCI	3	1	L
7N	177N1R0053	BP501T	10	8	PCI	3	1	T
7N	177N1R0053	BP502T	10	7	PCI	3	1	T
7N	177N1R0053	BP503T	10	8	PCI	3	1	T
7N	177N1R0053	BP504T	10	12	PCI	3	1	T
7N	177N1R0053	BP505T	10	10	PCI	3	1	T
7N	177N1R0053	BP506P	5	7	PCI	3	1	L
7N	177N1R0053	BP507P	5	7	PCI	3	1	L
7N	177N1R0053	BP508P	5	9	PCI	3	1	L
7N	177N1R0054	BP501T	10	9	PCI	3	1	T
7N	177N1R0054	BP502T	10	10	PCI	3	1	T
7N	177N1R0054	BP503T	10	7	PCI	3	1	T
7N	177N1R0054	BP504T	10	12	PCI	3	1	T

7N	177N1R0054	BP505T	10	10	PCI	3	1	T
7N	177N1R0054	BP506P	5	7	PCI	3	1	L
7N	177N1R0054	BP507P	5	7	PCI	3	1	L
7N	177N1R0054	BP508P	5	8	PCI	3	1	L
7N	177N1R0055	BP501T	10	11	PCI	3	1	T
7N	177N1R0055	BP502T	10	13	PCI	3	1	T
7N	177N1R0055	BP503T	10	10	PCI	3	1	T
7N	177N1R0055	BP504T	10	13	PCI	3	1	T
7N	177N1R0055	BP505T	10	14	PCI	3	1	T
7N	177N1R0055	BP506P	5	10	PCI	3	1	L
7N	177N1R0055	BP507P	5	9	PCI	3	1	L
7N	177N1R0055	BP508P	5	9	PCI	3	1	L
7N	177N1R0056	BP501T	10	-1	PCI	3	1	T
7N	177N1R0056	BP502T	10	-1	PCI	3	1	T
7N	177N1R0056	BP503T	9	-1	PCI	3	1	T
7N	177N1R0056	BP504T	10	-1	PCI	3	1	T
7N	177N1R0056	BP505T	10	-1	PCI	3	1	T
7N	177N1R0056	BP506P	5	8	PCI	3	1	L
7N	177N1R0056	BP507P	5	7	PCI	3	1	L
7N	177N1R0056	BP508P	5	8	PCI	3	1	L
7N	177N1R0057	BP501T	10	5	PCI	3	1	T
7N	177N1R0057	BP502T	10	10	PCI	3	1	T
7N	177N1R0057	BP503T	10	8	PCI	3	1	T
7N	177N1R0057	BP504T	10	12	PCI	3	1	T
7N	177N1R0057	BP505T	10	9	PCI	3	1	T
7N	177N1R0057	BP506P	5	9	PCI	3	1	L
7N	177N1R0057	BP507P	5	8	PCI	3	1	L
7N	177N1R0057	BP508P	5	9	PCI	3	1	L
7N	177N1R0058	BP501T	10	8	PCI	3	1	T
7N	177N1R0058	BP502T	10	12	PCI	3	1	T
7N	177N1R0058	BP503T	10	8	PCI	3	1	T
7N	177N1R0058	BP504T	10	14	PCI	3	1	T
7N	177N1R0058	BP505T	10	11	PCI	3	1	T
7N	177N1R0058	BP506P	5	9	PCI	3	1	L
7N	177N1R0058	BP507P	5	8	PCI	3	1	L
7N	177N1R0058	BP508P	5	8	PCI	3	1	L
7N	177N1R0059	BP501T	10	6	PCI	3	1	T
7N	177N1R0059	BP502T	10	11	PCI	3	1	T
7N	177N1R0059	BP503T	10	8	PCI	3	1	T
7N	177N1R0059	BP504T	10	10	PCI	3	1	T
7N	177N1R0059	BP505T	10	9	PCI	3	1	T
7N	177N1R0059	BP506P	5	8	PCI	3	1	L
7N	177N1R0059	BP507P	5	8	PCI	3	1	L
7N	177N1R0059	BP508P	5	8	PCI	3	1	L
7N	177N1R0060	BP501T	10	10	PCI	3	1	T
7N	177N1R0060	BP502T	10	10	PCI	3	1	T

7N	177N1R0060	BP503T	10	7	PCI	3	1	T
7N	177N1R0060	BP504T	10	9	PCI	3	1	T
7N	177N1R0060	BP505T	10	6	PCI	3	1	T
7N	177N1R0060	BP506P	5	7	PCI	3	1	L
7N	177N1R0060	BP507P	5	7	PCI	3	1	L
7N	177N1R0060	BP508P	5	8	PCI	3	1	L
7N	177N1R0062	BP501T	10	9	PCI	3	1	T
7N	177N1R0062	BP502T	10	12	PCI	3	1	T
7N	177N1R0062	BP503T	10	8	PCI	3	1	T
7N	177N1R0062	BP504T	10	13	PCI	3	1	T
7N	177N1R0062	BP505T	10	11	PCI	3	1	T
7N	177N1R0062	BP506P	5	7	PCI	3	1	L
7N	177N1R0062	BP507P	5	7	PCI	3	1	L
7N	177N1R0062	BP508P	5	9	PCI	3	1	L
7N	177N1R0063	BP501T	10	13	PCI	3	1	T
7N	177N1R0063	BP502T	10	14	PCI	3	1	T
7N	177N1R0063	BP503T	10	12	PCI	3	1	T
7N	177N1R0063	BP504T	10	15	PCI	3	1	T
7N	177N1R0063	BP505T	10	14	PCI	3	1	T
7N	177N1R0063	BP506P	5	9	PCI	3	1	L
7N	177N1R0063	BP507P	5	9	PCI	3	1	L
7N	177N1R0063	BP508P	5	9	PCI	3	1	L
7N	177N1R0064	BP501T	10	6	PCI	3	1	T
7N	177N1R0064	BP502T	10	-1	PCI	3	1	T
7N	177N1R0064	BP503T	10	-1	PCI	3	1	T
7N	177N1R0064	BP504T	10	12	PCI	3	1	T
7N	177N1R0064	BP505T	10	10	PCI	3	1	T
7N	177N1R0064	BP506P	5	-1	PCI	3	1	L
7N	177N1R0064	BP507P	5	-1	PCI	3	1	L
7N	177N1R0064	BP508P	5	-1	PCI	3	1	L
7N	177N1R0065	BP501T	10	12	PCI	3	1	T
7N	177N1R0065	BP502T	10	12	PCI	3	1	T
7N	177N1R0065	BP503T	10	10	PCI	3	1	T
7N	177N1R0065	BP504T	10	14	PCI	3	1	T
7N	177N1R0065	BP505T	10	15	PCI	3	1	T
7N	177N1R0065	BP506P	5	9	PCI	3	1	L
7N	177N1R0065	BP507P	5	8	PCI	3	1	L
7N	177N1R0065	BP508P	5	9	PCI	3	1	L
7N	177N1R0066	BP501T	10	13	PCI	3	1	T
7N	177N1R0066	BP502T	10	13	PCI	3	1	T
7N	177N1R0066	BP503T	10	11	PCI	3	1	T
7N	177N1R0066	BP504T	10	14	PCI	3	1	T
7N	177N1R0066	BP505T	10	12	PCI	3	1	T
7N	177N1R0066	BP506P	5	9	PCI	3	1	L
7N	177N1R0066	BP507P	5	9	PCI	3	1	L
7N	177N1R0066	BP508P	5	9	PCI	3	1	L

7N	177N1R0067	BP501T	10	14	PCI	3	1	T
7N	177N1R0067	BP502T	10	13	PCI	3	1	T
7N	177N1R0067	BP503T	10	11	PCI	3	1	T
7N	177N1R0067	BP504T	10	15	PCI	3	1	T
7N	177N1R0067	BP505T	10	13	PCI	3	1	T
7N	177N1R0067	BP506P	5	9	PCI	3	1	L
7N	177N1R0067	BP507P	5	9	PCI	3	1	L
7N	177N1R0067	BP508P	5	9	PCI	3	1	L
7N	177N1R0068	BP501T	10	10	PCI	3	1	T
7N	177N1R0068	BP502T	10	10	PCI	3	1	T
7N	177N1R0068	BP503T	10	7	PCI	3	1	T
7N	177N1R0068	BP504T	10	13	PCI	3	1	T
7N	177N1R0068	BP505T	10	11	PCI	3	1	T
7N	177N1R0068	BP506P	5	8	PCI	3	1	L
7N	177N1R0068	BP507P	5	8	PCI	3	1	L
7N	177N1R0068	BP508P	5	8	PCI	3	1	L
7N	177N1R0069	BP501T	10	5	PCI	3	1	T
7N	177N1R0069	BP502T	10	11	PCI	3	1	T
7N	177N1R0069	BP503T	10	6	PCI	3	1	T
7N	177N1R0069	BP504T	10	12	PCI	3	1	T
7N	177N1R0069	BP505T	10	12	PCI	3	1	T
7N	177N1R0069	BP506P	5	8	PCI	3	1	L
7N	177N1R0069	BP507P	5	7	PCI	3	1	L
7N	177N1R0069	BP508P	5	8	PCI	3	1	L
7N	177N1R0070	BP501T	10	9	PCI	3	1	T
7N	177N1R0070	BP502T	10	10	PCI	3	1	T
7N	177N1R0070	BP503T	10	11	PCI	3	1	T
7N	177N1R0070	BP504T	10	14	PCI	3	1	T
7N	177N1R0070	BP505T	10	12	PCI	3	1	T
7N	177N1R0070	BP506P	5	9	PCI	3	1	L
7N	177N1R0070	BP507P	5	8	PCI	3	1	L
7N	177N1R0070	BP508P	5	8	PCI	3	1	L
7N	177N1R0071	BP501T	10	13	PCI	3	1	T
7N	177N1R0071	BP502T	10	13	PCI	3	1	T
7N	177N1R0071	BP503T	10	12	PCI	3	1	T
7N	177N1R0071	BP504T	10	15	PCI	3	1	T
7N	177N1R0071	BP505T	10	15	PCI	3	1	T
7N	177N1R0071	BP506P	5	10	PCI	3	1	L
7N	177N1R0071	BP507P	5	9	PCI	3	1	L
7N	177N1R0071	BP508P	5	9	PCI	3	1	L
7N	177N1R0072	BP501T	10	8	PCI	3	1	T
7N	177N1R0072	BP502T	10	12	PCI	3	1	T
7N	177N1R0072	BP503T	10	9	PCI	3	1	T
7N	177N1R0072	BP504T	10	14	PCI	3	1	T
7N	177N1R0072	BP505T	10	13	PCI	3	1	T
7N	177N1R0072	BP506P	5	9	PCI	3	1	L

7N	177N1R0072	BP507P	5	8	PCI	3	1	L
7N	177N1R0072	BP508P	5	9	PCI	3	1	L
7N	177N1R0073	BP501T	10	7	PCI	3	1	T
7N	177N1R0073	BP502T	10	13	PCI	3	1	T
7N	177N1R0073	BP503T	10	10	PCI	3	1	T
7N	177N1R0073	BP504T	10	14	PCI	3	1	T
7N	177N1R0073	BP505T	10	13	PCI	3	1	T
7N	177N1R0073	BP506P	5	9	PCI	3	1	L
7N	177N1R0073	BP507P	5	8	PCI	3	1	L
7N	177N1R0073	BP508P	5	9	PCI	3	1	L
7N	177N1R0074	BP501T	10	10	PCI	3	1	T
7N	177N1R0074	BP502T	10	11	PCI	3	1	T
7N	177N1R0074	BP503T	10	10	PCI	3	1	T
7N	177N1R0074	BP504T	10	15	PCI	3	1	T
7N	177N1R0074	BP505T	10	13	PCI	3	1	T
7N	177N1R0074	BP506P	5	9	PCI	3	1	L
7N	177N1R0074	BP507P	5	8	PCI	3	1	L
7N	177N1R0074	BP508P	5	9	PCI	3	1	L
7N	177N1R0075	BP501T	10	13	PCI	3	1	T
7N	177N1R0075	BP502T	10	13	PCI	3	1	T
7N	177N1R0075	BP503T	10	12	PCI	3	1	T
7N	177N1R0075	BP504T	10	14	PCI	3	1	T
7N	177N1R0075	BP505T	10	15	PCI	3	1	T
7N	177N1R0075	BP506P	5	9	PCI	3	1	L
7N	177N1R0075	BP507P	5	9	PCI	3	1	L
7N	177N1R0075	BP508P	5	9	PCI	3	1	L
7N	177N1R0076	BP501T	10	10	PCI	3	1	T
7N	177N1R0076	BP502T	10	12	PCI	3	1	T
7N	177N1R0076	BP503T	10	9	PCI	3	1	T
7N	177N1R0076	BP504T	10	13	PCI	3	1	T
7N	177N1R0076	BP505T	10	13	PCI	3	1	T
7N	177N1R0076	BP506P	5	9	PCI	3	1	L
7N	177N1R0076	BP507P	5	8	PCI	3	1	L
7N	177N1R0076	BP508P	5	9	PCI	3	1	L
7N	177N1R0077	BP501T	10	9	PCI	3	1	T
7N	177N1R0077	BP502T	10	12	PCI	3	1	T
7N	177N1R0077	BP503T	10	8	PCI	3	1	T
7N	177N1R0077	BP504T	10	13	PCI	3	1	T
7N	177N1R0077	BP505T	10	12	PCI	3	1	T
7N	177N1R0077	BP506P	5	8	PCI	3	1	L
7N	177N1R0077	BP507P	5	8	PCI	3	1	L
7N	177N1R0077	BP508P	5	9	PCI	3	1	L
7N	177N1R0078	BP501T	10	7	PCI	3	1	T
7N	177N1R0078	BP502T	10	10	PCI	3	1	T
7N	177N1R0078	BP503T	9	6	PCI	3	1	T
7N	177N1R0078	BP504T	10	11	PCI	3	1	T

7N	177N1R0078	BP505T	10	10	PCI	3	1	T
7N	177N1R0078	BP506P	5	8	PCI	3	1	L
7N	177N1R0078	BP507P	5	6	PCI	3	1	L
7N	177N1R0078	BP508P	5	-1	PCI	3	1	L
7N	177N1R0079	BP501T	10	11	PCI	3	1	T
7N	177N1R0079	BP502T	10	12	PCI	3	1	T
7N	177N1R0079	BP503T	10	12	PCI	3	1	T
7N	177N1R0079	BP504T	10	15	PCI	3	1	T
7N	177N1R0079	BP505T	10	12	PCI	3	1	T
7N	177N1R0079	BP506P	5	9	PCI	3	1	L
7N	177N1R0079	BP507P	5	9	PCI	3	1	L
7N	177N1R0079	BP508P	5	9	PCI	3	1	L
7N	177N1R0080	BP501T	10	14	PCI	3	1	T
7N	177N1R0080	BP502T	10	14	PCI	3	1	T
7N	177N1R0080	BP503T	10	13	PCI	3	1	T
7N	177N1R0080	BP504T	10	15	PCI	3	1	T
7N	177N1R0080	BP505T	10	15	PCI	3	1	T
7N	177N1R0080	BP506P	5	10	PCI	3	1	L
7N	177N1R0080	BP507P	5	9	PCI	3	1	L
7N	177N1R0080	BP508P	5	9	PCI	3	1	L
7N	177N1R0081	BP501T	10	13	PCI	3	1	T
7N	177N1R0081	BP502T	10	11	PCI	3	1	T
7N	177N1R0081	BP503T	10	9	PCI	3	1	T
7N	177N1R0081	BP504T	10	13	PCI	3	1	T
7N	177N1R0081	BP505T	10	11	PCI	3	1	T
7N	177N1R0081	BP506P	5	-1	PCI	3	1	L
7N	177N1R0081	BP507P	5	-1	PCI	3	1	L
7N	177N1R0081	BP508P	5	-1	PCI	3	1	L
7N	177N1R0082	BP501T	10	3	PCI	3	1	T
7N	177N1R0082	BP502T	10	9	PCI	3	1	T
7N	177N1R0082	BP503T	10	-1	PCI	3	1	T
7N	177N1R0082	BP504T	10	15	PCI	3	1	T
7N	177N1R0082	BP505T	10	-1	PCI	3	1	T
7N	177N1R0082	BP506P	5	-1	PCI	3	1	L
7N	177N1R0082	BP507P	5	-1	PCI	3	1	L
7N	177N1R0082	BP508P	5	-1	PCI	3	1	L
7N	177N1R0083	BP501T	10	8	PCI	3	1	T
7N	177N1R0083	BP502T	10	10	PCI	3	1	T
7N	177N1R0083	BP503T	10	8	PCI	3	1	T
7N	177N1R0083	BP504T	10	12	PCI	3	1	T
7N	177N1R0083	BP505T	10	11	PCI	3	1	T
7N	177N1R0083	BP506P	5	-1	PCI	3	1	L
7N	177N1R0083	BP507P	5	8	PCI	3	1	L
7N	177N1R0083	BP508P	5	9	PCI	3	1	L
7N	177N1R0084	BP501T	10	11	PCI	3	1	T
7N	177N1R0084	BP502T	10	13	PCI	3	1	T

7N	177N1R0084	BP503T	10	12	PCI	3	1	T
7N	177N1R0084	BP504T	10	15	PCI	3	1	T
7N	177N1R0084	BP505T	10	14	PCI	3	1	T
7N	177N1R0084	BP506P	5	10	PCI	3	1	L
7N	177N1R0084	BP507P	5	9	PCI	3	1	L
7N	177N1R0084	BP508P	5	9	PCI	3	1	L
7N	177N1R0085	BP501T	10	8	PCI	3	1	T
7N	177N1R0085	BP502T	10	10	PCI	3	1	T
7N	177N1R0085	BP503T	10	6	PCI	3	1	T
7N	177N1R0085	BP504T	10	11	PCI	3	1	T
7N	177N1R0085	BP505T	10	12	PCI	3	1	T
7N	177N1R0085	BP506P	5	9	PCI	3	1	L
7N	177N1R0085	BP507P	5	7	PCI	3	1	L
7N	177N1R0085	BP508P	5	8	PCI	3	1	L
7N	177N1R0087	BP501T	10	6	PCI	3	1	T
7N	177N1R0087	BP502T	10	11	PCI	3	1	T
7N	177N1R0087	BP503T	9	3	PCI	3	1	T
7N	177N1R0087	BP504T	10	8	PCI	3	1	T
7N	177N1R0087	BP505T	10	7	PCI	3	1	T
7N	177N1R0087	BP506P	5	7	PCI	3	1	L
7N	177N1R0087	BP507P	5	7	PCI	3	1	L
7N	177N1R0087	BP508P	5	7	PCI	3	1	L
7N	177N1R0088	BP501T	10	8	PCI	3	1	T
7N	177N1R0088	BP502T	10	12	PCI	3	1	T
7N	177N1R0088	BP503T	10	8	PCI	3	1	T
7N	177N1R0088	BP504T	10	13	PCI	3	1	T
7N	177N1R0088	BP505T	10	12	PCI	3	1	T
7N	177N1R0088	BP506P	5	8	PCI	3	1	L
7N	177N1R0088	BP507P	5	8	PCI	3	1	L
7N	177N1R0088	BP508P	5	9	PCI	3	1	L
7N	177N1R0089	BP501T	10	5	PCI	3	1	T
7N	177N1R0089	BP502T	10	9	PCI	3	1	T
7N	177N1R0089	BP503T	10	7	PCI	3	1	T
7N	177N1R0089	BP504T	10	13	PCI	3	1	T
7N	177N1R0089	BP505T	10	10	PCI	3	1	T
7N	177N1R0089	BP506P	5	7	PCI	3	1	L
7N	177N1R0089	BP507P	5	7	PCI	3	1	L
7N	177N1R0089	BP508P	5	8	PCI	3	1	L
7N	177N1R0090	BP501T	10	4	PCI	3	1	T
7N	177N1R0090	BP502T	10	9	PCI	3	1	T
7N	177N1R0090	BP503T	10	6	PCI	3	1	T
7N	177N1R0090	BP504T	10	2	PCI	3	1	T
7N	177N1R0090	BP505T	10	7	PCI	3	1	T
7N	177N1R0090	BP506P	5	8	PCI	3	1	L
7N	177N1R0090	BP507P	5	7	PCI	3	1	L
7N	177N1R0090	BP508P	5	8	PCI	3	1	L

7N	177N1R0091	BP501T	10	5	PCI	3	1	T
7N	177N1R0091	BP502T	10	9	PCI	3	1	T
7N	177N1R0091	BP503T	10	-1	PCI	3	1	T
7N	177N1R0091	BP504T	10	12	PCI	3	1	T
7N	177N1R0091	BP505T	10	7	PCI	3	1	T
7N	177N1R0091	BP506P	5	7	PCI	3	1	L
7N	177N1R0091	BP507P	5	7	PCI	3	1	L
7N	177N1R0091	BP508P	5	8	PCI	3	1	L

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