



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
--------------	-----------	-----------	--------------	------------	------------	---------------	------------

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 Assessment 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
--------------	-----------------

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.



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. 01-08/ JNTUK/DAP/AC/B. Tech-B. Pharmacy/II-III-IV Year/2020-21

Date: 29-12-2020

Dr. R. Srinivasa Rao,
Director, Academic Planning
JNTUK, Kakinada

To
All the Principals of Affiliated Colleges,
JNTUK, Kakinada.

Academic Calendar for II, III and IV - B. Tech & B. Pharmacy
Academic year 2020-21

I SEMESTER			
Description	From	To	Weeks
Commencement of Class Work	02.11.2020		
I Unit of Instruction	02.11.2020	19.12.2020	7W
II Unit of Instructions	21.12.2020	23.01.2021	5W
I Mid Examinations	25.01.2021	30.01.2021	1W
II Unit of Instructions(Continued)	01.02.2021	20.02.2021	3W
II Mid Examinations	22.02.2021	27.02.2021	1W
Preparation & Practicals	01.03.2021	06.03.2021	1W
End Examinations	08.03.2021	20.03.2021	2W
Commencement of II Semester Class Work	22.03.2021		
II SEMESTER			
I Unit of Instructions	22.03.2021	08.05.2021	7W
I Mid Examinations	10.05.2021	12.05.2021	1/2W
II Unit of Instructions	13.05.2021	30.06.2021	7W
II Mid Examinations	01.07.2021	03.07.2021	1/2W
Preparation & Practicals	05.07.2021	10.07.2021	1W
End Examinations	12.07.2021	24.07.2021	2W
Commencement of next Year Class Work			
Note: Calendar is prepared with 8 hrs/day hence 7 weeks per instruction period			

R. Srinivasulu
Director Academic Planning
Academic Planning
JNTUK Kakinada

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

**INSTITUTIONAL EXAMINATION
COMMITTEE**

VIJAYA INSTITUTE OF PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU, VIJAYAWADA

INSTITUTIONAL EXAMINATION COMMITTEE 2020-21

Date: 02-11-20

ROLES & RESPONSIBILITIES:

- Ensure proper dissemination of information with regard to examination among all the stakeholders viz. students / faculty / non – teaching staff / university authorities etc.
- To receive exam notification / schedule from JNTUK web portal.
- To ensure proper organization of internal assessments / sessional / end semester examinations in the college.
- Ensure proper communication with JNTUK with regards to examination and fulfillment of university circulars.
- To communicate with the faculty regarding the setting of question paper and the other requisites that go along with it.
- To ensure proper seating plan and invigilation duties.
- Appoint alternative internal examiners / external examiners for conduct of end semester theory/ practical examination with permission of university authorities.
- Record and issue the answer books and other exam related stationery to the invigilators / internal examiners 30 minutes before the commencement of the exam
- Download and print the appropriate number of question papers at least 20 minutes before the commencement of the exam and maintain absolute confidentiality
- To have an internal squad committee to ensure the smooth conduct of examinations and also to avoid issues of malpractices.
- Resolve students / faculty / university grievances with regards to examinations.
- Uploading internal theory / practical examination marks on JNTUK web portal.
- Maintain records with regards to conduct of examination and results.

MEETING SCHEDULE:

The committee members meet twice in the academic year.

CONSTITUTION: The details of the members are as follow:

S. No	Name of the Faculty	Designation	Post
1	Dr. K. Padmalatha	Professor & Principal	Chairperson
2	Mr. S. Venkateswara Rao	Associate Professor	College Examination Officer
3	Mrs. B. Hemalatha	Assistant Professor	Member
4	Mr. M. Bala krishna	Assistant Professor	Member
5	Dr. N. Prathibha	Assistant Professor	Member




PRINCIPAL
VIJAYA INSTITUTE OF
PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU, VIJAYAWADA - 521 108.

III B.PHARMACY II SEM. (PCI)



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY : KAKINADA
UNIVERSITY EXAMINATION CENTER, KAKINADA

III B. PHARMACY - II SEMESTER (PCI REGULATION) I, II MID EXAMINATIONS & QUIZ (OFF LINE), AUGUST - 2021

TIME TABLE

I MID TIME : 10.00 AM TO 12.00 NOON

II MID TIME : 02.00 PM TO 04.00 PM

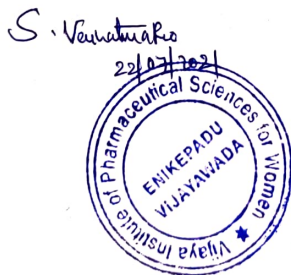
DATE	02-08-2021 (Monday)	03-08-2021 (Tuesday)	04-08-2021 (Wednesday)	05-08-2021 (Thursday)	06-08-2021 (Friday)	07-08-2021 (Saturday)
SUBJECTS	Medicinal Chemistry III (BP601T)	Pharmacology III (BP602T)	Herbal Drug Technology (BP603T)	Biopharmaceutics and Pharmacokinetics (BP604T)	Pharmaceutical Biotechnology (BP605T)	Quality Assurance (BP606T)

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

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

(iii) THE PRINCIPALS ARE REQUESTED TO INFORM THE UNIVERSITY ANY OTHER SUBSTITUTE SUBJECTS THAT ARE NOT INCLUDED IN THE ABOVE LIST IMMEDIATELY.

DATE: 20-07-2021




22/7/21
PRINCIPAL
VIJAYA INSTITUTE O.
PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU, VIJAYAWADA - 521 108.
Controller of Examinations

VIJAYA INSTITUTE OF PHARMACEUTICAL SCIENCES FOR WOMEN

ENIKEPADU, VIJAYAWADA - 521108

III B.Pharm II Sem Mid Exams, August 2021

STAFF INVIGILATION DUTIES

Time: I MID: Morning: 10.00 AM to 12.00 PM

II MID: Afternoon: 02.00 PM to 04.00 PM

DATE	SESSION	Room - 1		Room - 2		Room - 3		Room - 4	
		Staff	Sign	Staff	Sign			Staff	Sign
02.08.2021 (Monday)	Morning	Mr. Sk. Shehensha		Mrs. M. Vani		Mrs. A. Bhavana		Mrs. A. V. S. Hima Bindu	
	Afternoon	Mrs. A. V. S. Hima Bindu		Mr. Sk. Shehensha		Mrs. M. Vani		Mrs. A. Bhavana	
03.08.2021 (Tuesday)	Morning	Mrs. A. Bhavana		Mrs. A. V. S. Hima Bindu		Mr. Sk. Shehensha		Mrs. M. Vani	
	Afternoon	Mrs. M. Vani		Mrs. A. Bhavana		Mrs. A. V. S. Hima Bindu		Mr. Sk. Shehensha	
04.08.2021 (Wednesday)	Morning	Mr. Sk. Shehensha		Mrs. M. Vani		Mrs. A. Bhavana		Mrs. A. V. S. Hima Bindu	
	Afternoon	Mrs. A. V. S. Hima Bindu		Mr. Sk. Shehensha		Mrs. M. Vani		Mrs. A. Bhavana	
05.08.2021 (Thursday)	Morning	Mrs. A. Bhavana		Mrs. A. V. S. Hima Bindu		Mr. Sk. Shehensha		Mrs. M. Vani	
	Afternoon	Mrs. M. Vani		Mrs. A. Bhavana		Mrs. A. V. S. Hima Bindu		Mr. Sk. Shehensha	
06.08.2021 (Friday)	Morning	Mr. Sk. Shehensha		Mrs. M. Vani		Mrs. A. Bhavana		Mrs. A. V. S. Hima Bindu	
	Afternoon	Mrs. A. V. S. Hima Bindu		Mr. Sk. Shehensha		Mrs. M. Vani		Mrs. A. Bhavana	
07.08.2021 (Saturday)	Morning	Mrs. A. Bhavana		Mrs. A. V. S. Hima Bindu		Mr. Sk. Shehensha		Mrs. M. Vani	
	Afternoon	Mrs. M. Vani		Mrs. A. Bhavana		Mrs. A. V. S. Hima Bindu		Mr. Sk. Shehensha	



Exams Incharge
(Dr. S. Venkateswara Rao)
VIJAYA INSTITUTE OF
PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU, VIJAYAWADA -
PIN - 521 108

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

INTERNAL SQUAD COMMITTEE

VIJAYA INSTITUTE OF PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU, VIJAYAWADA

INTERNAL SQUAD COMMITTEE 2020-21

Date: 02-11-20

ROLES & RESPONSIBILITIES:

- Strict checking of unfair means is sole responsibility of members of committee.
- Before the start of examination, the committee members should check every student.
- 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.
- 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.

CONSTITUTION: The details of the members are as follow:

S. No	Name of the Faculty	Designation	Post
1	Dr. K. Padmalatha	Professor & Principal	Chairperson
2	Dr. S. Venkateswara Rao	Associate Professor	College Examination Officer
3	Mrs. B. Hemalatha	Assistant Professor	Member
4	Mr. M. Bala krishna	Assistant Professor	Member
5	Dr. N. Prathibha	Assistant Professor	Member

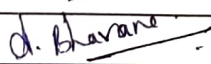
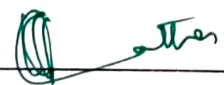



PRINCIPAL
VIJAYA INSTITUTE OF
PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU, VIJAYAWADA - 521 108.

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

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

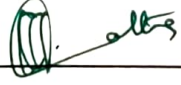
Sub: Pharmaceutical Biotechnology (BP605T)

S. No	Hall-Ticket No	STUDENT SIGNATURE	
		I MID	II MID
1	187N1R0001	B. Anukya	B. Anukya
2	187N1R0002	K. Lavanya	K. Lavanya
3	187N1R0003	K. Susan Deepthi	K. Susan Deepthi
4	187N1R0004	K. Thansi	K. Thansi
5	187N1R0005	M. Kalpana	M. Kalpana
6	187N1R0006	M. Lavanya	M. Lavanya
7	187N1R0007	R. Sai prasanna	R. Sai prasanna
8	187N1R0008	Y. Sudharani	Y. Sudharani
9	187N1R0009	Abdul. Robaya	Abdul. Robaya
10	187N1R0010	A. Akanksha	A. Akanksha
11	187N1R0011	Gayatri. Alur	Gayatri Alur
12	187N1R0012	A. Varalakshmi	A. Varalakshmi
13	187N1R0013	B. Mounika	B. Mounika
14	187N1R0014	B. Gayathri	B. Gayathri
15	187N1R0015	B. Sri Rekha	B. Sri Rekha
16	187N1R0016	M. Bhavya Sri	M. Bhavya Sri
17	187N1R0017	B. Prasanna	B. Prasanna
18	187N1R0020	ch. Naga Sivani	ch. Naga Sivani
19	187N1R0021	ch. Hushika	ch. Hushika
20	187N1R0022	D. Sai Vaishnavi	D. Sai Vaishnavi
21	187N1R0023	D. Spondana	D. Spondana
Total Number of Students		21	21
Signature of Invigilator			
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/ II SEM (PCI) MID EXAM
ATTENDANCE DAIRY

Sub: Pharmaceutical Biotechnology (BP605T)

S. No	Hall-Ticket No	STUDENT SIGNATURE	
		I MID	II MID
22	187N1R0024	D. Yuna	D. Yuna
23	187N1R0025	D. Nandini.	D. Nandini.
24	187N1R0028	G. Payel	G. Payel
25	187N1R0029	G. Ramya Sai Heghara	G. Ramya Sai Heghara
26	187N1R0030	G. Pranitha	G. Pranitha.
27	187N1R0031	G. Keerthi	G. Keerthi
28	187N1R0033	G. Annie Susanna.	G. Annie Susanna
29	187N1R0034	G. Lekhana	G. Lekhana
30	187N1R0035	J. Geethanjali	J. Geethanjali
31	187N1R0036	K. Vinita Rani	K. Vinita Rani
32	187N1R0037	K. Naga Durga	K. Naga Durga.
33	187N1R0038	K. Maneesha	K. Maneesha
34	187N1R0039	Kalyani: G	Kalyani: G
35	187N1R0040	K. Seefana	K. Seefana
36	187N1R0041	K. Anuritha	K. Anuritha
37	187N1R0042	K. Yashaswini	K. Yashaswini
38	187N1R0043	K. Pranitha	K. Pranitha.
39	187N1R0044	K. Vineetha	K. Vineetha
40	187N1R0045	K. Rajasree	K. Rajasree
41	187N1R0046	K. Nagaiyothi.	K. Nagaiyothi.
Total Number of Students		20	20
Signature of Invigilator		N. Sath	A. Bhavana
Exams Incharge		S. Venkatesh Pr	S. Venkatesh
Signature of Head of the Institution			

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

III B. PHARM/ II SEM (PCD) MID EXAM
ATTENDANCE DAIRY

Sub: Pharmaceutical Biotechnology (BP605T)

S. No	Hall-Ticket No	STUDENT SIGNATURE	
		I MID	II MID
42	187N1R0047	K. Divya Naidu	K. Divya Naidu
43	187N1R0048	K. Tejaswi	K. Tejaswi
44	187N1R0049	K. Ramya	K. Ramya
45	187N1R0050	K. Sumitha	K. Sumitha
46	187N1R0051	M. Kavya	M. Kavya
47	187N1R0052	M. Bhagya Sri	M. Bhagya Sri
48	187N1R0053	M. Madhuri	M. Madhuri
49	187N1R0054	M.V.D. Pravalika	M.V.D. Pravalika
50	187N1R0055	M. Malleswari	M. Malleswari
51	187N1R0056	N. Geetha	N. Geetha
52	187N1R0057	AB -	AB -
53	187N1R0058	N. Harika	N. Harika
54	187N1R0059	P. Rupa Sree.	P. Rupa Sree.
55	187N1R0060	P. Hema lakshmi	P. Hema lakshmi
56	187N1R0061	P. Yamini	P. Yamini
57	187N1R0062	P. Yashwanthi	P. Yashwanthi
58	187N1R0063	G. Greethika.	G. Greethika.
59	187N1R0064	P. Bhuvaneswari.	P. Bhuvaneswari.
60	187N1R0065	R. Menaka Devi	R. Menaka Devi.
61	187N1R0066	R. Babitha.	R. Babitha.
Total Number of Students			
Signature of Invigilator		J. Venu	A.V.S. Himabindu
Exams Incharge		S. Venkatesh	S. Venkatesh
Signature of Head of the Institution		[Signature]	[Signature]

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

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

Sub: Pharmaceutical Biotechnology (BP605T)

S. No	Hall-Ticket No	STUDENT SIGNATURE	
		I MID	II MID
62	187N1R0067	R. Pushpalatha	R. Pushpalatha
63	187N1R0068	R. Anitha	R. Anitha
64	187N1R0070	S. Sirisha	S. Sirisha
65	187N1R0071	S. Pravalika	S. Pravalika
66	187N1R0072	S. Dharaani	S. Dharaani
67	187N1R0073	S. Lakshmisai	S. Lakshmisai
68	187N1R0074	Sk. Asha Begum	Sk. Asha Begum
69	187N1R0075	Shik. Halsa	Shik. Halsa
70	187N1R0076	S. Nishi	S. Nishi
71	187N1R0077	Sk. Rojya Begum	Sk. Rojya Begum
72	187N1R0078	S. Divya	S. Divya
73	187N1R0079	Syed-fatheema Nasreen	Syed-fatheema Nasreen
74	187N1R0080	T. Sivalli	T. Sivalli
75	187N1R0081	T. Dhavalakshmi	T. Dhavalakshmi
76	187N1R0082	M sai	M sai
77	187N1R0083	T. Sangeetha	T. Sangeetha
78	187N1R0084	V. Vennela	V. Vennela
79	187N1R0085	V. Sai Nikitha	V. Sai Nikitha
80	187N1R0086	P. Jaya	P. Jaya
81	187N1R0088	D. Swathi	D. Swathi
Total Number of Students			
Signature of Invigilator		A.V.S. Himabindu	T. Vano
Exams Incharge		S. Venkatesh	S. Venkatesh
Signature of Head of the Institution			

Model of Evaluated Mid Exam
Answer Script

SRK FOUNDATION'S
**VIJAYA INSTITUTE OF
PHARMACEUTICAL SCIENCES FOR WOMEN**
ENIKEPADU, VIJAYAWADA



2020 - 2021

SESSIONAL BOOK

Name : R. MENAKA DEVI
Class : III - B. PHARMACY - B SECTION
Roll No. : 187N1R0065
Subject : PHARMACEUTICAL BIOTECHNOLOGY

Internal	Objective	Subjective	Assignment	Total	Staff Sign	Student Sign
I	10	19	-	29		R. Menaka Devi
II	10	18	-	28		R. Menaka Devi

Final Average :

Staff Sign

HOD Sign

VIJAYA INSTITUTE OF PHARMACEUTICAL SCIENCES FOR WOMEN
 Enikepadu, Vijayawada - 521108
 III B. Pharm / II Sem - I Mid Examination

Time: 15 min

Sub: PHARMACEUTICAL BIOTECHNOLOGY (BP605T)

Marks: 10

Multiple choice questions

10 x 1 = 10 Marks

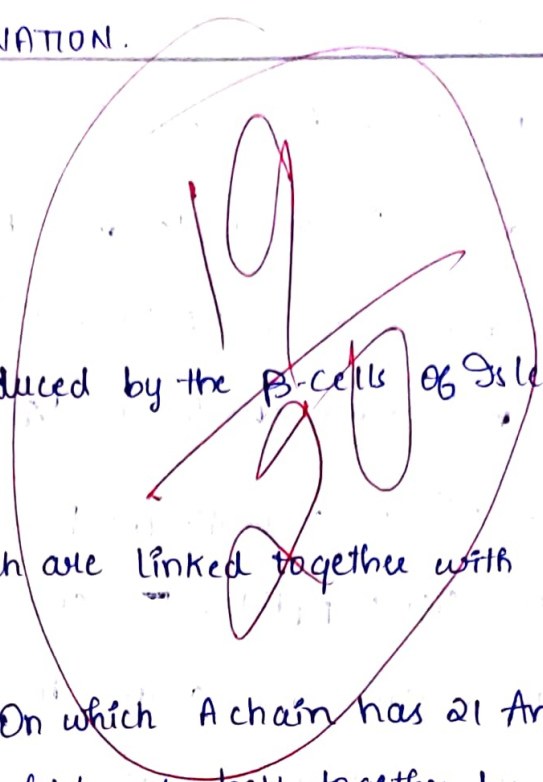
1. Where the maturation of T-Lymphocytes takes place
 a) Thyroid b) Bone marrow c) Thymus d) Tonsils
 (c) ✓
2. During the enzymatic reaction of an immobilized enzyme, the rate of substrate transfer is
 a) Equal to that of substrate consumption b) More than that of substrate consumption
 c) Lesser than that of substrate consumption d) Nothing to do with the substrate consumption
 (a) ✓
3. The immobilized enzyme produced by micro encapsulation technique provides
 a) An extremely large surface area b) Smaller surface area
 c) High amount of solvent d) Relatively smaller surface area
 (a) ✓
4. Name of the microorganism produces penicillinase enzyme is
 a) *E. coli* b) *Staphylococcus aureus*
 c) *Bacillus subtilis* d) *Pseudomonas aureus*
 (b) ✓
5. Skin is considered as
 a) Active Immunity b) Passive immunity c) Innate Immunity d) Acquired Immunity
 (c) ✓
6. Name of the enzyme present in sweat is
 a) Amylase b) Penicillinase c) Protease d) Lysozyme
 (d) ✓
7. What are the examples of secondary lymphoid organs
 a) Spleen b) Tonsils
 c) Lymph nodes d) All of the above
 (d) ✓
8. Ig present in saliva, tears, & sweat is
 a) Ig A b) Ig D c) Ig E d) Ig G
 (a) ✓
9. BCG vaccine is act against
 a) *Mycobacterium leprae* b) *Mycobacterium tuberculosis*
 c) Malaria d) Jaundice
 (b) ✓
10. The support material for immobilization of cells of *Bacillus subtilis* is
 a) Ion exchange resins b) Gelatin
 c) Anthracite d) Agarose
 (d) ✓

I. MID EXAMINATION.

I.2 INSULIN & INTERFERON.

INSULIN

- It is a hormone which is produced by the β -cells of Islets of Langerhans in the Pancreas.
- It has 51 amino acids which are linked together with polypeptide Bonds.
- Insulin has 2 chains A & B. On which A chain has 21 Amino acids and B-chain has 30 Amino acids, which are held together by disulfide bonds.



Production of Insulin:

Insulin can be produced recombinantly through the insertion of human gene insulin and promoter gene of the lac Operon into the cultured *E. coli*. Of course, the recombinant human insulin came well and insulin is the 1st recombinant product.

- In 1980, July, 17 volunteers were administered the recombinant human insulin to treat the Diabetes Mellitus.

Diabetes Mellitus:

It is a metabolic disorder, in which the Glucose level in the blood rises high due to insufficiency of the hormone insulin Biologically.

- Hence External administration of insulin results in treating Diabetes Mellitus.

Production of Insulin in an effective way:

After the administration of Insulin to human volunteers, the recombinant human insulin was successful. By that Eli Lilly Company marketed the first recombinant insulin as ~~Insulin~~ "Humulin".

- For the necessity of recombinant human insulin, it is produced by addition of signal peptides, two chains produced separately in separate E. coli cultures and then added to a single hormone.
- It makes the production easier and faster.

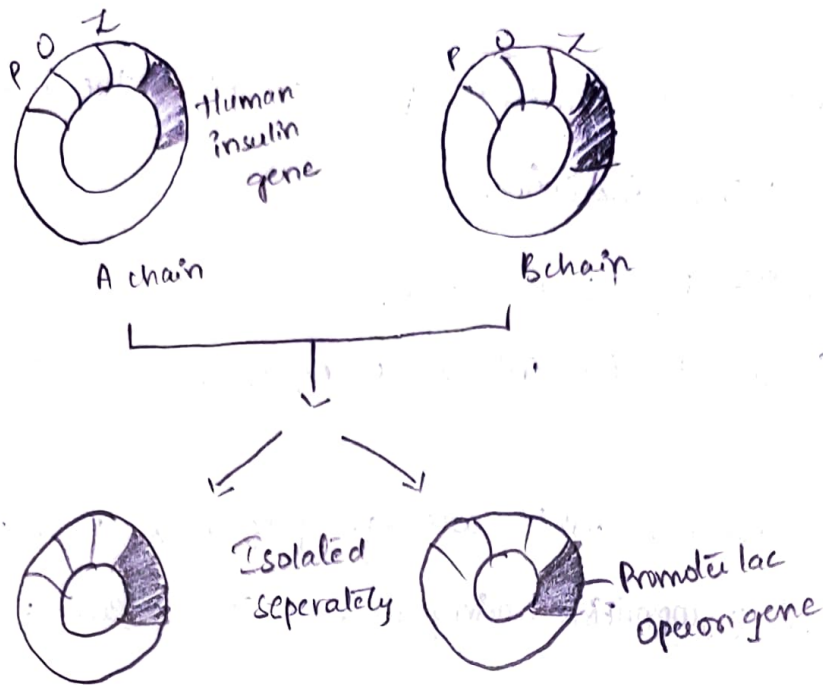
Second Generation recombinant human Insulin:

- The 1st produced insulin rises in the plasma levels and leads to hyperinsulinemia due to the slow dissociated hexamer into monomer or dimer.
- Hence, the Insulin Pro was discovered with slight differences in 29 and 30 amino acids of B-chain results in the faster dissociation of insulin.

Porcine

It is the recombinant pig insulin, which is differed from human insulin in just one amino acid - alanine in place of threonine.

- Although it is used to treat Diabetes Mellitus and used extensively.



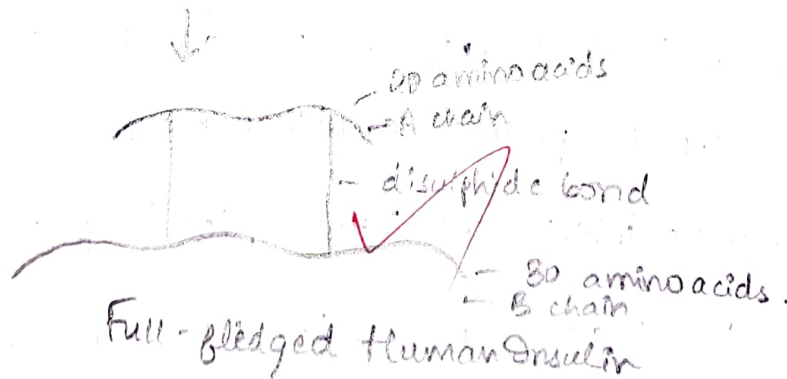
Kept in
Separate cultures of
E. coli

Lactose is added
to enhance chain
formation

A chain

B chain

Added amino acids



Production of Human Insulin

INTERFERON

These are first line defence molecules produced when the host organism undergoes viral infections.

- These are first identified by Isaacs & Jean.
- Interferon name is due to the interference of molecules in viral replication.
- These are single substances which are group of more than 20 substances, made up of glycoproteins having mol. wt 20000 - 30000 Daltons.

Types of Interferons

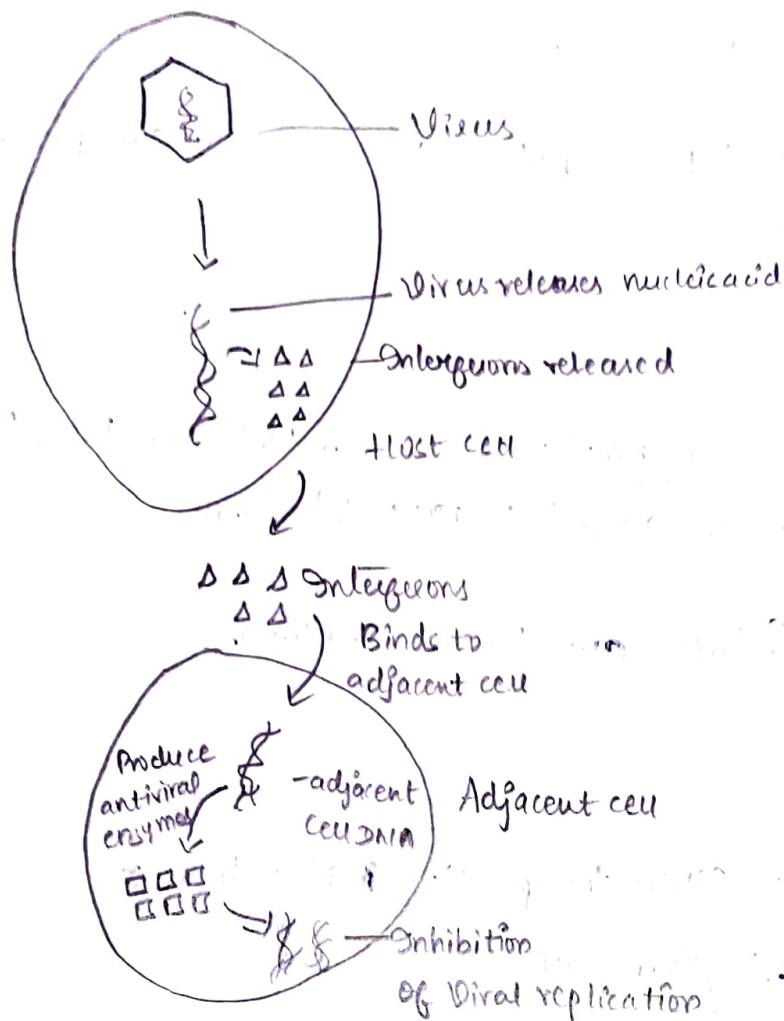
Interferon - α

Interferon - β

Interferon - γ

Mechanism of Interferons.

- Interferons are released when any viral infections occur.
- The viruses release its nucleic acid into cytoplasm of the host cell.
- Then the host cell releases Interferons.
- These interferons bind to adjacent cell and there it regulates the DNA of adjacent cell to produce antiviral enzymes.
- These enzymes inhibit the viral replication further.
- Hence the viral attack is inhibited by Interferons.



Mechanism of Interferons.

Production of Interferons in E.coli

Production of Interferons in E.coli does not occur effectively, because in E.coli, the glycosylation of protein which is essential for the production of Interferons does not occur. Hence, E.coli cultures won't support and produce effective interferons.

Production of Interferons in Yeast:

Saccharomyces cerevisiae can able to produce Interferons effectively because in this glycosylation of protein is possible, hence the Interferon gene is inserted into 4 yeast cells, which gives several fold Interferons than E.coli.

Production of Hybrid Interferons

Here, Glycosylation step is bypassed and interferons are produced much faster and easier.

Isolation of Interferons

Blood is the only source for the extraction of Interferon. But 50000 litres of blood is needed to get just 100 mg of interferons.

→ Therefore it is difficult and tedious method.

Uses of Interferons

- Can be used in cancer therapy like in Neck, head, renal cell cancers, Kaposi's Sarcoma, Myeloma etc.
- Other diseases are Genital warts, hepatitis B etc.
- Common cold, Influenzae Virus etc.
- AIDS, other Viral diseases etc.

11) Methods of Enzyme Immobilization

Enzyme Immobilisation: This is a technique of confining / adhering of enzymes to the surface of the inert support.

There are 4 main methods:

- 1) Adsorption
- 2) Entrapment
- 3) Covalent Bonding
- 4) Cross linking.

1) Adsorption:

In this physical method, the enzymes are attached to the surface of the inert support.

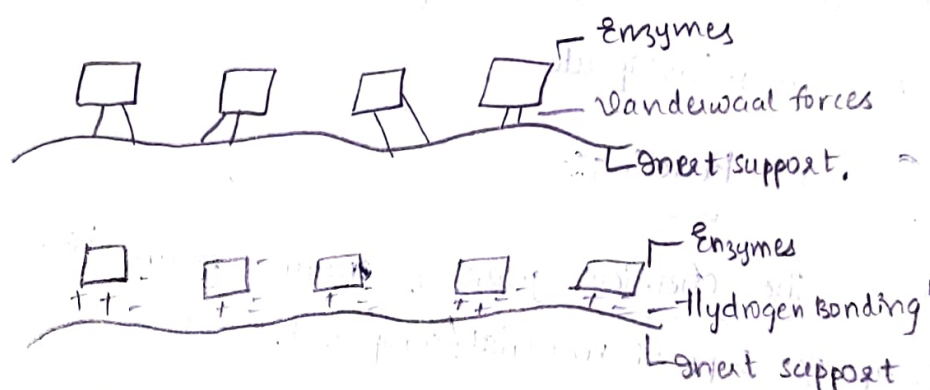
→ The inert support may be inorganic or organic in nature.

Inorganic - Glass, silica, alumina gel etc.

Organic - starch, Ethyl cellulose etc.

→ However, this adsorption of enzymes occurs by weak Vanderwaal forces or through hydrogen bonding.

→ Hence, the minute changes in the pH, ionic strength, temperature can change or reverse the enzyme to free enzymes instead of bounding to the support.



ADSORPTION

2) Entrapment:

→ This is the entrapment of the enzymes into gels, matrix, fibres or in microcapsules.

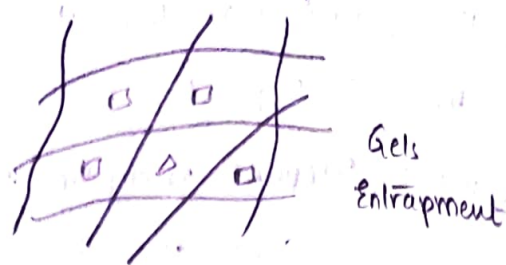
→ The trapping should be have pore size in which the enzymes are retained where substrates and products should pass through.

→ The entrapment will have disadvantage of leakage,

There are various methods of entrapment:

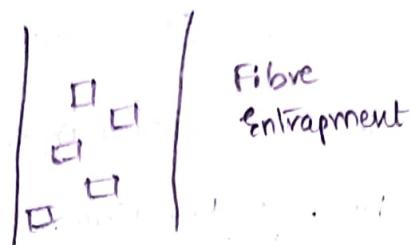
1) Entrapment by Gels:

In this mesh like format, the enzymes are entrapped.



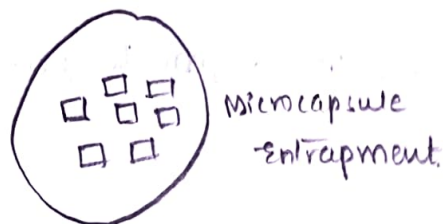
2) Entrapment by Fibres:

Fibre like format is formed for the entrapment of enzyme.



3) Entrapment by microcapsules:

Closed circle where the matrix of hydrophilic and hydrophobic polymerise to form microcapsules.



3) Covalent Bonding:-

→ In this the chemical groups of enzymes forms binds between chemical groups of support material/compound.

→ But for the correct affinity, these materials should be pretreated, later Enzyme binding should be done.

→ There are several methods for binding.

1) Cyanogen Bromide formation:-

The support material should be pretreated with Cyanogen Bromide and then the enzymes chemical group binds to it strongly.

Eg: Amino benzyl derivatives.

2) Diazotation?

In this the support material is pretreated with NaNO_2 and HCl , later the enzymes, chemical groups are attached to form bonds.

3) Peptide formations:

Tyrosyl group of enzymes forms bond with amino group of support material.

4) Bi / polyfunctional Groups:

Glutaraldehyde, amino allyl derivatives are used. On this amino (chemical) group of enzyme is attached to amino (chemical) group of support material.

4) Cross Linking:

Absence of solid material is a characteristic feature of the use of cross linking.

→ The enzymes are treated with compounds glutaraldehyde, hexamethane to form the crosslinks which will the backbone of the enzyme, made it immobilised.

→ cross linking can be effectively achieved by the use of glutaraldehyde - lysyl group of enzymes are attached to amino groups of glutaraldehyde creating a backbone of enzyme.

→ However, this can be a disadvantage i.e. it can withstand extreme pH and higher temperatures.

3. IMMUNE STIMULATION :-

→ These are the agents which stimulates the Immune system to achieve a immune response.

→ There are several ways to stimulate Immune system:

- 1) Bacterial Vaccines
- 2) Viral Vaccines
- 3) Therapeutic Vaccines
- 4) Combination Vaccines
- 5) Interferons
- 6) Interleukins
- 7) Colony Stimulating Factors.

1) Bacterial Vaccines

These are killed / attenuated bacterial vaccines, which are used to stimulate the production of antibodies against particular bacteria, which can fight against later attacks.

→ TB vaccine - is used to fight against *Mycobacterium tuberculosis* against Tuberculosis.

Side effects:

May be rare like hypersensitivity reactions.

2) Viral Vaccines:

These are killed / attenuated viruses which are unable to produce viral replication but have the capability to produce Immune response.

Side effects:-

Blood in stool

Pneumonia etc.

3) Therapeutic Vaccines:

These are the vaccines which are used to suppress the disease causing cell by stimulating the immune system to that particular cell.

→ These are very common vaccines against many diseases like Cancer.

4) Combination Vaccines:-

These are combination of antigens against different antigens or against different strains of same disease causing organisms.

→ These are advantageous, multipurpose, because, no. of injections to be injected is decreased and side effects will also be less, when compared to single vaccination.

Ex:- MMR - Measles, Mumps, Rubella.

DTaP - Diphtheria, Tetanus, Pertussis.

Combination Vaccines for children:

Ex:- IPV, DTaP, Hib - Polio, Diphtheria, Tetanus, Pertussis.

Side effects:

However the side effects will be minimized in combined vaccinations.

6) Interferons:-

→ These are groups of glycoproteins which are produced when any virus attacks the host cell / organism.

→ These glycoproteins produces antiviral enzymes when a virus releases its nucleic acid for replication. Thus, these antiviral enzymes inhibit the further viral replication by binding to DNA of adjacent cell.

Uses:

Cancer Therapy, AIDS, Common cold etc.

6) Interleukins:

→ These are a group of cytokines which can kill the invading antigen.
→ These Interleukins are used to stimulate the immune system when any infections happens occur.

Ex: Interleukins

7) Colony stimulating factors:

In cancer therapy, the white blood cells count decreased abnormally (Neutropenia) - Hence colony stimulating factors are used to rise the white blood count in the plasma level.

VIJAYA INSTITUTE OF PHARMACEUTICAL SCIENCES FOR WOMEN

Enikepadu, Vijayawada - 521108

III B. Pharm / II Sem - II Mid Examination

Sub: PHARMACEUTICAL BIOTECHNOLOGY(BP605T)

Marks: 10

Time: 10 min

Multiple choice questions

10 x 1=10 Marks

1. "AB" Blood group is (b) ✓
 a) Universal donor b) Universal acceptor c) Both of the above d) None of the above
2. Discovery of Blood group (c) ✓
 a) Joseph lister b) Alexander flemming
 c) Landsteiner d) Louis pasteur
3. Extra chromosomal DNA is (d) ✓
 a) Eukaryotes b) Prokaryotes
 c) Ribosome d) Plasmid
4. Storage condition of Whole Human Blood is (b) ✓
 a) 0°-4°c b) 4°-6°c
 c) 6°-8°c d) 8°-10°c
5. The mobile segment of DNA is called as (c) ✓
 a) Histone b) Plasmid c) Transposon d) Adenine
6. How many hydrogen bonds are formed between DNA and histones in each nucleosome? (a) ✓
 a) 142 b) 114 c) 42 d) 24
7. Location of Chromosome in eukaryotes is (d) ✓
 a) Golgi apparatus b) Endoplasmic reticulum
 c) Cytoplasm d) Nucleus
8. ELISA was introduced by (b) ✓
 a) Louis Pasteur b) Peter Perlmann
 c) Alexander Fleming d) Joseph lister
9. The process by which DNA is transferred from one bacterium to another by a virus is called as (b) ✓
 a) Conjugation b) Transduction
 c) Transformation d) None of the above
10. Southern blotting technique is used to detect the (b) ✓
 a) Protein b) DNA
 c) RNA d) Amino acids

II - MID EXAMINATION.

11.
2. Define Mutation:

Mutation is a sudden change in the structural gene of a DNA, which can cause any damages to the DNA.

There are mainly two types of mutation:

i) Point Mutation.

ii) Frameshift Mutation.

Point Mutations:

These mutations are due to the replacement of one or more base pairs.

These are of two types again:

i) Transition :- In this the base pair which is replaced by the another (Purine) or pyrimidine.

ii) Transversion :- In this, the base pair replaced by pyrimidine by purine / purine by pyrimidine or vice versa.

Transition



Transversion



} Point Mutations.

Consequences of Point Mutations

i) Silent Mutations

ii) Missense mutations

iii) Nonsense Mutations

i) Silent Mutations:-

In case of UCA, if it codes for serine, then change in the last codon like UCU, then also it codes for serine amino acid. Then the process won't get disturbed due to the change in the codon.

→ Hence it is called as silent mutations.

ii) Missense Mutations:-

In the case of UCU, which codes for the serine amino acid, in case changes to ACU, which is a structural codon, codes for Threonine amino acid, leads to the mis function.

→ But this may be unacceptable / acceptable / partially acceptable.

iii) Non sense Mutation:-

In the case of UCU, which codes for serine amino acid, it changes to UAA, which is a termination codon, then the entire process will inhibited and therefore the process will cease.

(ii) Frameshift Mutations:-

These mutations may involve insertion / deletion of base pairs into the codon of structural gene.

i) Insertion:

In this one / more base pairs can be added, so that the entire process may / may not change.



ii) Deletion:

In this one/more base pairs can be removed off from the sequence of structural gene/codon.



Consequences of frameshift Mutations:

The shift of frame, result in the insertion/deletion.

→ Hence, insertion/deletion won't affect the entire synthesis.

→ Hence, the Translation process continues till the end.

But at final stage, the premature protein can be obtained due to this additions/deletions.

3. ELISA.

Enzyme Linked Immunosorbent Assay was first identified by Peter Pearlmann. It was a antigen-antibody technique.

→ It was performed in 96 polystyrene well plates.

→ In ELISA, the detection of proteins, amides, peptides, Nucleic acids etc. can be performed.

Depending upon the type of detection, they are of 3 types.

i) Indirect ELISA - detection of antibody

ii) Sandwich ELISA - detection of antigen

iii) Competitive ELISA - detection of amount of antigen-antibody.

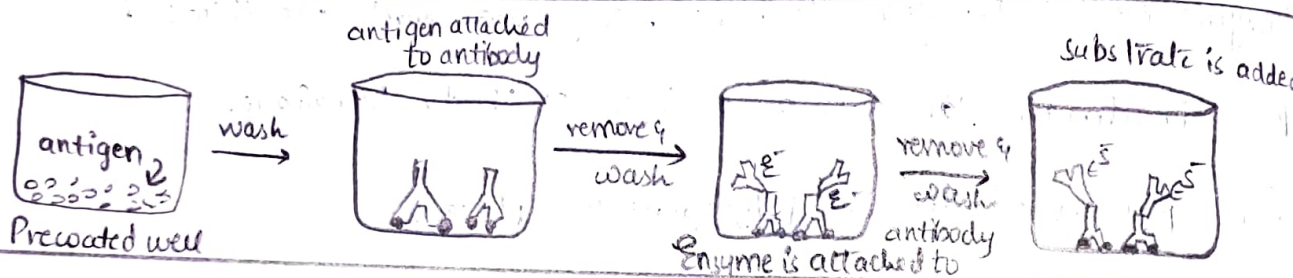
1) Indirect ELISA

Principle:

In this, the antibody is detected using ELISA Technique

Procedure:

- 1) The wells are coated with antigens.
- 2) Then, it is removed and washed.
- 3) Later antibodies are added, to which they are bounded.
- 4) Afterwards, it was washed and added with conjugated enzyme to which both the antigen and antibody attached.
- 5) Then, the substrate is added, to which the enzyme should attached.
- 6) Then the colourless antibody antigen produce a coloured compound which has to be analysed.



2) Sandwich ELISA:

Principle:

To detect the presence of antigen in the well.

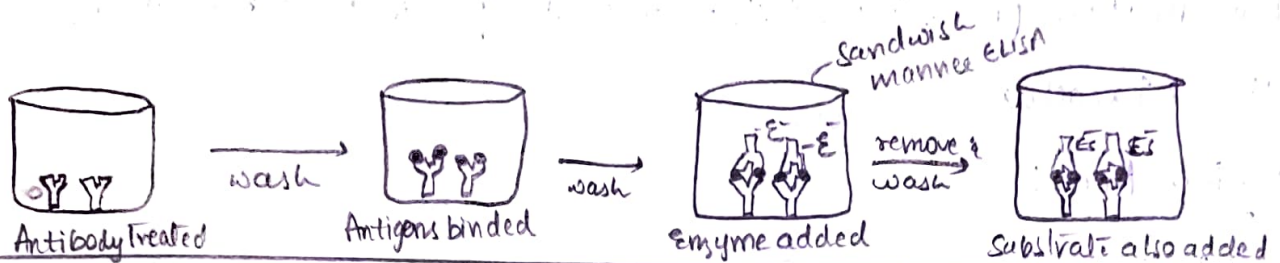
Procedure:-

- 1) The wells are precoated with the solution of antibodies.
- 2) Then it is removed and washed.
- 3) Later antigens are added externally, to which they will bind.

4) Afterwards, it was washed and added with Enzyme conjugated, which will bind to that antigen-antibody complex.

5) Then the substrate is added, to which the enzyme should attached and form a Antigen antibody Enzyme substrate complex in a sandwich manner.

6) Then a colour will be produced which is directly proportional to the amount of antigens present.



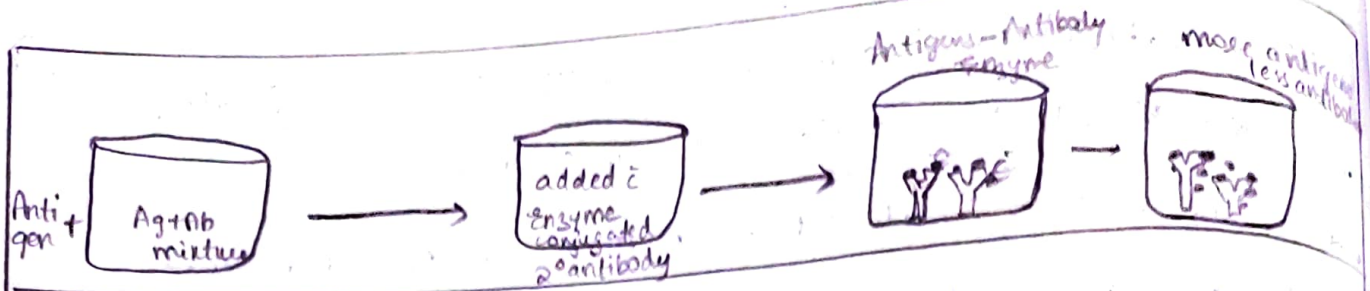
ii) Competitive ELISA

Principle:-

In this the amount of antibody present in the well is detected.

Procedure:-

- 1) ~~The~~ ~~antibody~~ The antigen is previously incubated before inoculated in the well.
- 2) The antigen-antibody mixture is added to the well where the Enzyme conjugated secondary antibody is also attached.
- 3) Then the complex formed is antibody-antigen and Enzyme, to that Substrate also added.
- 4) The more the antigens present, the less available will be the antibodies.
- 5) The amount of antibodies concentration is inversely proportional to the absorbance.



I.

① Fermenter :: It is also called as Bioreactor which is a device used for the cultivation and growth of fermenting microorganisms.

→ Fermentation process in Industries will take place in large Stirrer tanks like Bioreactors.

Various Parts :

Sparger

Agitator

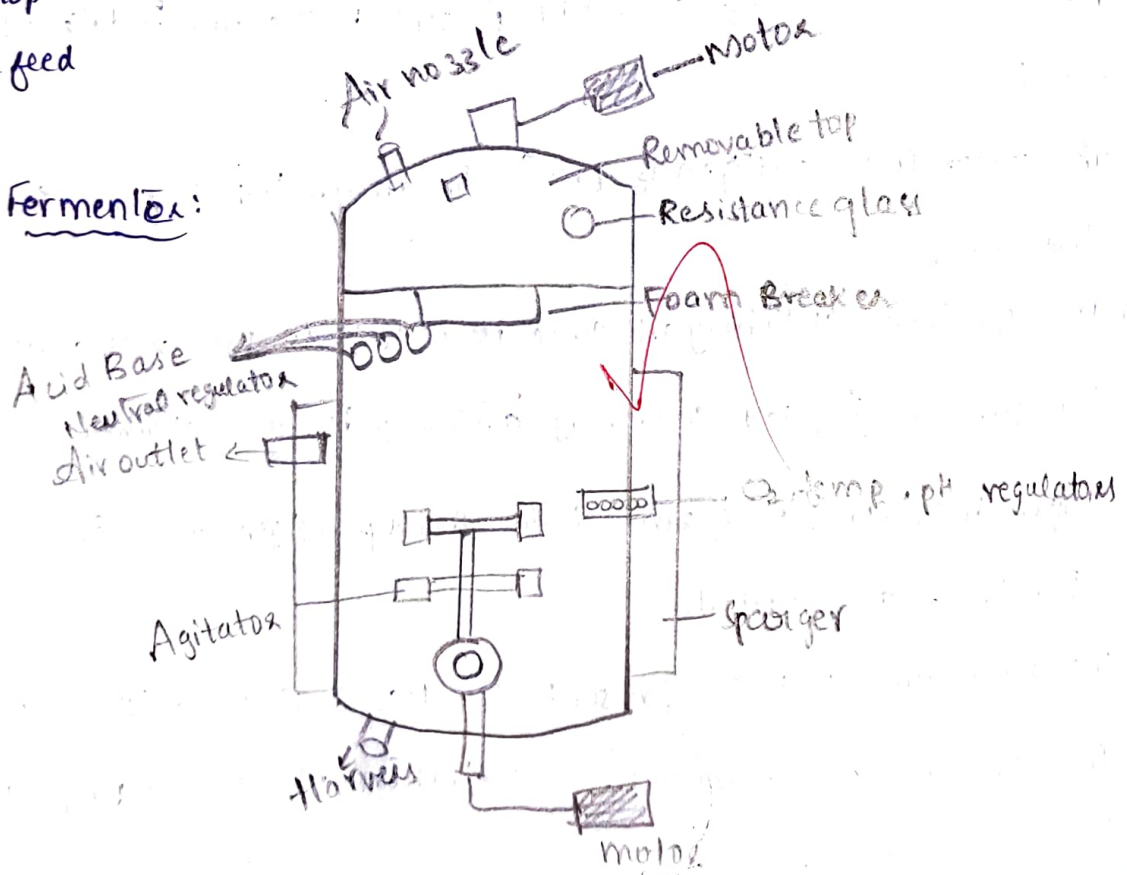
Inlet & outlet

Removable top

Nozzle for feed

Jacket.

Diagram of Fermenter:



Conventional Bioreactor designs:-

- Basically a bioreactor is a giant tank like in structure which is in dome shaped in top and bottom.
- The fermenter should be made up of stainless steel.
- It should not contain any ridged surface, the surface should be smooth, so that the cleaning of fermenter is easily made.
- Then it should be attached with a jacketed system to provide cooling and heating.
- The continuous Oxygen supply to the fermentor tank is necessary in case of aerobic process.
- The inner surface of the tank should not contain any crevices, so that the contamination does not occur.
- The tank should be visible (or) transparent if possible, for the frequent inspection of the process.

Various Control Systems of ~~the~~ Fermentor:

1) Temperature:

The fermentor at high temperature does not allow the microbial growth, low temperature does not activate the fermentation process.

Hence Optimum Temperature should be maintained.

2) pH:

At low pH only these microbes will survive and in fact it is also advantageous that at low pH levels the contamination won't occur inside the tank.

3) Nutrient medium:

The more the nutrient medium, the wastage will be more. Less nutrient medium is inadequate for the growth of microbes. Hence optimum growth of microbes need nutrient medium levels.

4) Antifoaming Agents :-

Addition of antifoaming agents will leads to desired fermentation levels. Hence antifoaming agents like vegetable oils are used,

→ If in case foams are formed, there is a provision for breaking of the foam.

→ Acid, Base Neutral Regulators:

For the variations in the cultivation inside the fermentor, the pH of the medium should be controlled.

→ There is a provision for the removal of entire content by opening the roof of the fermentator.

→ The fermenter is provided with agitator, sparger which are used to rotate the mixtures / medium in the tank by paddle shaped stirrers.

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

SUB: PHARMACEUTICAL BIOTECHNOLOGY (BP605T)

38

S.NO	Name of the Student	Register NO	I MID			II MID			Practical	
			Continuous Mode	Sessional Marks	Total	Continuous Mode	Sessional Marks	Total	Imtd	II mid
1	B. Sai Venkata Anubha	187NI R0001	10	14	24	10	14	24	N	
2	K. Lavanya	187NI R0002	10	15	25	10	15	25	O	
3	K. Susan deepthi	187NI R0003	10	6	16	10	6	16	P	
4	Kondeti. Jhansi	187NI R0004	10	15	25	10	13	23	S	
5	Masimmukku Kalpana	187NI R0005	10	14	24	10	13	23	a	
6	Muttho Lavanya	187NI R0006	10	9	19	10	4	14	c	
7	R. Sai Prasanna	187NI R0007	10	9	19	10	8	18	t	
8	V. Sai Sudha Rani	187NI R0008	10	11	21	10	12	22	i	
9	Abdul Rokya	187NI R0009	10	13	23	10	13	23	c	

10	Achutha Akanksha.	187NI R0010	10	15	25	10	14	24	N
11	Ailu Navya Sri	187NI R0011	10	12	22	10	12	22	O
12	Arula Varalakshmi	187NI R0012	10	15	25	10	14	24	P
13	Baravathu Moonika.	187NI R0013	10	13	23	10	12	22	R
14	Bathula Gayathri	187NI R0014	10	14	24	10	14	24	a
15	Bhandaru Sree Keltha	187NI R0015	10	14	24	10	12	22	e
16	Bhavya Sree Medepalle	187NI R0016	10	8	18	10	10	20	t
17	Boyalapalli Prasanna.	187NI R0017	10	13	23	10	14	24	i
18	Chilokuru Naga Sravan	187NI R0020	10	13	23	10	8	18	C
19	Chinthu Hushik.	187NI R0021	10	14	24	10	14	24	q

S.No	Name of the student	Register No	I MID			II MID			Practical		Pen
			Continuous Mode	Sessional Marks	Total	Continuous Mode	Sessional Marks	Total	I Mid	II Mid	
20	Danda Sai Vaishnavi	187NIR0022	10	10	20	10	8	18			
21	Dekka Spandana	187NIR0023	10	9	19	10	8	18	N		
22	Dekku Vova Lalshmi	187NIR0024	10	11	21	10	12	22	C		
23	Dondapati Nandini	187NIR0025	10	14	24	10	14	24	P		
24	Gash payal	187NIR0028	10	14	24	10	15	25	2		
25	G.R.S. Meghana	187NIR0029	10	13	23	10	10	20	C		
26	Goriparthi Pranitha	187NIR0030	10	12	22	10	12	22	t		
27	Gosala Keerthi	187NIR0031	10	10	20	10	9	19	i		
28	G. Annie Susanne	187NIR0033	10	14	24	10	14	24	C		

29	Gurijala Lekhana	187NIR0034	10	14	24	10	13	23	N
30	Jarti Geethonjali	187NIR0035	10	13	23	10	14	24	O
31	Kabpala Veenitha Pani	187NIR0036	10	11	21	10	9	19	P
32	Kalissetti Nagadurga.	187NIR0037	10	9	19	10	6	16	X
33	Kollepalli Manisha.	187NIR0038	10	12	22	10	12	22	a
34	Kalyani Galp	187NIR0039	10	14	24	10	13	23	e
35	Kanchala Sujana	187NIR0040	10	13	23	10	14	24	t
36	Kapavorapu Ashwithe	187NIR0041	10	13	23	10	14	24	i
37	Kathor? Yashaswin?	187NIR0042	10	14	24	10	14	24	e
38	Katur? Pranitha	187NIR0043	10	11	21	10	7	17	a

S.NO	Name of the Student	Register NO	THID			THID			Practical		Result
			Continuous Marks	Seminar Marks	Total	Continuous Marks	Seminar Marks	Total	THID	THID	
39	Kojjavarapu Vineetha	187NIR0044	10	13	23	10	10	20			
40	Kollimarla Raja Sree	187NIR0045	10	13	23	10	12	22			
41	Kondeti Naga Jyothi	187NIR0046	10	12	22	10	13	23			
42	Kotha Divya Naidu	187NIR0047	10	8	18	10	8	18			
43	Kotra Tejaswi	187NIR0048	10	13	23	10	11	21			
44	Kuchipudi Ramya	187NIR0049	10	9	19	10	8	18			
45	Kundethi Susmitha	187NIR0050	10	8	18	10	11	21			
46	Madugula kavya	187NIR0051	10	14	24	10	11	21			
47	Mankari Bhagyavathi	187NIR0052	10	14	24	10	13	23			

48	Maparthi Madhuri	187NIR0053	10	12	22	10	10	20	N
49	M.V.D. Ravallika.	187NIR0054	10	12	22	10	10	20	O
50	M.S.N.L. Malleswari	187NIR0055	10	13	23	10	15	25	P
51	Nagidi Geetha.	187NIR0056	10	11	21	10	9	19	R
52	Namburi Krishna Veni	187NIR0057	10	0	10	10	0	10	a
53	Narda Harila.	187NIR0058	10	14	24	10	13	23	C
54	Paidi Ruparee	187NIR0059	10	13	23	10	11	21	e
55	Parsie Hemalakeshmi	187NIR0060	10	11	21	10	13	23	C
56	Psoluri Vamin	187NIR0061	10	12	22	10	13	23	a
57	Pendyala Vashwathi	187NIR0062	10	14	24	10	13	23	C

S.NO	Name of the student	Register No	I MID			II MID			Practical	
			Continuous Mode	Semiprof. Marks	Total	Continuous Mode	Semiprof. Marks	Total	I Mid	II Mid
58	Galanika Geethika.	187NI R0063	10	10	20	10	10	20		
59	P. Bhuvaneshwari	187NI R0064	10	14	24	10	13	23	N	
60	R. Menaka Devi	187NI R0065	10	15	25	10	14	24		
61	Rajulapati Babitha	187NI R0066	10	15	25	10	14	24	P	
62	Rajulapati Purnalaksh	187NI R0067	10	10	20	10	8	18		
63	Ranireddy Anitha.	187NI R0068	10	11	21	10	9	19		
64	Sangula Sirisha.	187NI R0070	10	14	24	10	13	23		
65	S. Pravallika	187NI R0071	10	14	24	10	9	19		
66	Sasetti Dherani	187NI R0072	10	14	24	10	14	24		

67	Senagala Lakshmi Sai	187N1R0073	10	11	21	10	13	23	N
68	Shaik Asha Begum	187N1R0074	10	12	22	10	13	23	0
69	Ashaik Hafsa	187N1R0075	10	12	22	10	12	22	P
70	Shaik Nishath Sabira -	187N1R0076	10	11	21	10	13	23	X
71	Shaik Raziya Begum	187N1R0077	10	11	21	10	12	22	Q
72	Sugriva Divya	187N1R0078	10	14	24	10	14	24	C
73	Syed Fatheema Nasreed.	187N1R0079	10	11	21	10	12	22	L
74	Tamma Sreedalli	187N1R0080	10	14	24	10	15	25	Q
75	T. Dhena Lakshmi	187N1R0081	10	11	21	10	9	19	L
76	Thota Sai Moonika	187N1R0082	10	14	24	10	14	24	

S No	Name of the Student	Register No	IITID			IITID			12 th Practical		Result
			Continuous Mode	Semester Marks	Total	Continuous Mode	Semester Marks	Total	Irrid	II Mid	
77	Tungala Sangeetha	187NI R0083	10	14	24	10	14	24			
78	V. Veenela Lalshmi	187NI R0084	10	14	24	10	13	23			
79	V.B.V.S. Nikitha	187NI R0085	10	10	20	10	12	22			
80	Piratha Jaya Sree	187NI R0086	10	12	22	10	12	22			
81	Dadda Swathi	187NI R0088	10	13	23	10	13	23			

N
O
P
A
C
T
I
C
A
L

Entered By: CH. A. Swathi
K. Radha

Exam Section Incharge

 *ms*

**Mid exam marks uploaded to
JNTUK University online portal**



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

Internal marks for III B.Pharmacy [PCI] II Semester
College: VIJAYA INSTITUTE OF PHARMACEUTICAL SCIENCES FOR WOMEN:7N

Date:04-09-2021

HTNO	SUBJECT	CM1	SE1	CM2	SE2	Total	SUB_TYPE
187N1R0001	BP601T	10	11	10	13	22	T
187N1R0001	BP602T	10	11	10	11	21	T
187N1R0001	BP603T	10	14	10	12	23	T
187N1R0001	BP604T	10	12	10	12	22	T
187N1R0001	BP605T	10	14	10	14	24	T
187N1R0001	BP606T	10	11	10	11	21	T
187N1R0001	BP607P	5	10	5	10	15	L
187N1R0001	BP608P	5	9	5	9	14	L
187N1R0001	BP609P	5	10	5	10	15	L
187N1R0002	BP601T	10	10	10	13	22	T
187N1R0002	BP602T	10	12	10	13	23	T
187N1R0002	BP603T	10	15	10	12	24	T
187N1R0002	BP604T	10	13	10	11	22	T
187N1R0002	BP605T	10	15	10	15	25	T
187N1R0002	BP606T	10	12	10	11	22	T
187N1R0002	BP607P	5	10	5	10	15	L
187N1R0002	BP608P	5	9	5	9	14	L
187N1R0002	BP609P	5	10	5	10	15	L
187N1R0003	BP601T	10	11	10	13	22	T
187N1R0003	BP602T	10	8	10	7	18	T
187N1R0003	BP603T	10	12	10	10	21	T
187N1R0003	BP604T	10	6	10	5	16	T
187N1R0003	BP605T	10	6	10	6	16	T
187N1R0003	BP606T	9	7	10	8	17	T
187N1R0003	BP607P	5	10	5	10	15	L
187N1R0003	BP608P	5	9	5	9	14	L
187N1R0003	BP609P	5	10	5	10	15	L
187N1R0004	BP601T	10	11	10	13	22	T
187N1R0004	BP602T	10	11	10	11	21	T
187N1R0004	BP603T	10	14	10	9	22	T
187N1R0004	BP604T	10	15	10	13	24	T
187N1R0004	BP605T	10	15	10	13	24	T
187N1R0004	BP606T	10	13	10	10	22	T
187N1R0004	BP607P	5	10	5	10	15	L
187N1R0004	BP608P	5	9	5	9	14	L
187N1R0004	BP609P	5	10	5	10	15	L
187N1R0005	BP601T	10	11	10	13	22	T
187N1R0005	BP602T	10	12	10	13	23	T
187N1R0005	BP603T	10	13	10	11	22	T
187N1R0005	BP604T	10	14	10	10	22	T
187N1R0005	BP605T	10	14	10	13	24	T
187N1R0005	BP606T	10	11	10	9	20	T

HTNO	SUBJECT	CM1	SE1	CM2	SE2	Total	SUB_TYPE
187N1R0005	BP607P	5	10	5	10	15	L
187N1R0005	BP608P	5	10	5	9	15	L
187N1R0005	BP609P	5	10	5	10	15	L
187N1R0006	BP601T	10	0	10	5	13	T
187N1R0006	BP602T	10	3	10	3	13	T
187N1R0006	BP603T	10	0	10	0	10	T
187N1R0006	BP604T	10	0	10	0	10	T
187N1R0006	BP605T	10	9	10	4	17	T
187N1R0006	BP606T	10	4	10	6	15	T
187N1R0006	BP607P	5	10	5	10	15	L
187N1R0006	BP608P	5	8	5	8	13	L
187N1R0006	BP609P	5	10	5	10	15	L
187N1R0007	BP601T	10	12	10	12	22	T
187N1R0007	BP602T	10	9	10	6	18	T
187N1R0007	BP603T	10	14	10	11	23	T
187N1R0007	BP604T	10	7	10	10	19	T
187N1R0007	BP605T	10	9	10	8	19	T
187N1R0007	BP606T	10	8	10	7	18	T
187N1R0007	BP607P	5	10	5	10	15	L
187N1R0007	BP608P	5	8	5	9	14	L
187N1R0007	BP609P	5	10	5	10	15	L
187N1R0008	BP601T	10	11	10	13	22	T
187N1R0008	BP602T	10	10	10	9	20	T
187N1R0008	BP603T	10	13	10	10	22	T
187N1R0008	BP604T	10	12	10	10	21	T
187N1R0008	BP605T	10	11	10	12	22	T
187N1R0008	BP606T	10	11	10	9	20	T
187N1R0008	BP607P	5	10	5	10	15	L
187N1R0008	BP608P	5	9	5	9	14	L
187N1R0008	BP609P	5	10	5	10	15	L
187N1R0009	BP601T	10	11	10	13	22	T
187N1R0009	BP602T	10	13	10	12	23	T
187N1R0009	BP603T	10	14	10	11	23	T
187N1R0009	BP604T	10	14	10	12	23	T
187N1R0009	BP605T	10	13	10	13	23	T
187N1R0009	BP606T	10	12	10	9	21	T
187N1R0009	BP607P	5	10	5	10	15	L
187N1R0009	BP608P	5	9	5	9	14	L
187N1R0009	BP609P	5	10	5	10	15	L
187N1R0010	BP601T	10	11	10	13	22	T
187N1R0010	BP602T	10	12	10	13	23	T
187N1R0010	BP603T	10	14	10	11	23	T
187N1R0010	BP604T	10	14	10	11	23	T
187N1R0010	BP605T	10	15	10	14	25	T
187N1R0010	BP606T	10	12	10	10	21	T
187N1R0010	BP607P	5	10	5	10	15	L
187N1R0010	BP608P	5	9	5	9	14	L
187N1R0010	BP609P	5	10	5	10	15	L
187N1R0011	BP601T	10	12	10	13	23	T
187N1R0011	BP602T	10	11	10	11	21	T

HTNO	SUBJECT	CM1	SE1	CM2	SE2	Total	SUB_TYPE
187N1R0011	BP603T	10	14	10	11	23	T
187N1R0011	BP604T	10	12	10	10	21	T
187N1R0011	BP605T	10	12	10	12	22	T
187N1R0011	BP606T	10	10	10	9	20	T
187N1R0011	BP607P	5	10	5	10	15	L
187N1R0011	BP608P	5	9	5	9	14	L
187N1R0011	BP609P	5	10	5	10	15	L
187N1R0012	BP601T	10	10	10	13	22	T
187N1R0012	BP602T	10	11	10	11	21	T
187N1R0012	BP603T	10	14	10	10	22	T
187N1R0012	BP604T	10	13	10	10	22	T
187N1R0012	BP605T	10	15	10	14	25	T
187N1R0012	BP606T	10	12	10	13	23	T
187N1R0012	BP607P	5	10	5	10	15	L
187N1R0012	BP608P	5	9	5	9	14	L
187N1R0012	BP609P	5	10	5	10	15	L
187N1R0013	BP601T	10	10	10	13	22	T
187N1R0013	BP602T	10	9	10	9	19	T
187N1R0013	BP603T	10	14	10	11	23	T
187N1R0013	BP604T	10	11	10	9	20	T
187N1R0013	BP605T	10	13	10	12	23	T
187N1R0013	BP606T	10	10	10	8	19	T
187N1R0013	BP607P	5	10	5	10	15	L
187N1R0013	BP608P	5	8	5	9	14	L
187N1R0013	BP609P	5	10	5	10	15	L
187N1R0014	BP601T	10	12	10	13	23	T
187N1R0014	BP602T	10	12	10	12	22	T
187N1R0014	BP603T	10	14	10	11	23	T
187N1R0014	BP604T	10	14	10	14	24	T
187N1R0014	BP605T	10	14	10	14	24	T
187N1R0014	BP606T	10	12	10	13	23	T
187N1R0014	BP607P	5	10	5	10	15	L
187N1R0014	BP608P	5	9	5	9	14	L
187N1R0014	BP609P	5	10	5	10	15	L
187N1R0015	BP601T	10	10	10	11	21	T
187N1R0015	BP602T	10	12	10	13	23	T
187N1R0015	BP603T	10	14	10	12	23	T
187N1R0015	BP604T	10	14	10	9	22	T
187N1R0015	BP605T	10	14	10	12	23	T
187N1R0015	BP606T	10	10	10	9	20	T
187N1R0015	BP607P	5	10	5	10	15	L
187N1R0015	BP608P	5	9	5	9	14	L
187N1R0015	BP609P	5	10	5	10	15	L
187N1R0016	BP601T	10	10	10	11	21	T
187N1R0016	BP602T	10	8	10	6	17	T
187N1R0016	BP603T	10	12	10	9	21	T
187N1R0016	BP604T	10	12	10	5	19	T
187N1R0016	BP605T	10	8	10	10	19	T
187N1R0016	BP606T	10	9	10	9	19	T
187N1R0016	BP607P	5	10	5	10	15	L

HTNO	SUBJECT	CM1	SE1	CM2	SE2	Total	SUB_TYPE
187N1R0016	BP608P	5	8	5	9	14	L
187N1R0016	BP609P	5	10	5	10	15	L
187N1R0017	BP601T	10	10	10	13	22	T
187N1R0017	BP602T	10	9	10	9	19	T
187N1R0017	BP603T	10	14	10	10	22	T
187N1R0017	BP604T	10	13	10	7	20	T
187N1R0017	BP605T	10	13	10	14	24	T
187N1R0017	BP606T	10	11	10	8	20	T
187N1R0017	BP607P	5	10	5	10	15	L
187N1R0017	BP608P	5	9	5	9	14	L
187N1R0017	BP609P	5	10	5	10	15	L
187N1R0020	BP601T	10	10	10	9	20	T
187N1R0020	BP602T	10	9	10	8	19	T
187N1R0020	BP603T	10	13	10	12	23	T
187N1R0020	BP604T	10	13	10	10	22	T
187N1R0020	BP605T	10	13	10	8	21	T
187N1R0020	BP606T	10	10	10	8	19	T
187N1R0020	BP607P	5	10	5	10	15	L
187N1R0020	BP608P	5	9	5	9	14	L
187N1R0020	BP609P	5	10	5	10	15	L
187N1R0021	BP601T	10	11	10	9	20	T
187N1R0021	BP602T	10	11	10	11	21	T
187N1R0021	BP603T	10	14	10	11	23	T
187N1R0021	BP604T	10	13	10	12	23	T
187N1R0021	BP605T	10	14	10	14	24	T
187N1R0021	BP606T	10	12	10	12	22	T
187N1R0021	BP607P	5	10	5	10	15	L
187N1R0021	BP608P	5	9	5	9	14	L
187N1R0021	BP609P	5	10	5	10	15	L
187N1R0022	BP601T	10	12	10	9	21	T
187N1R0022	BP602T	10	6	10	7	17	T
187N1R0022	BP603T	10	14	10	7	21	T
187N1R0022	BP604T	10	8	10	6	17	T
187N1R0022	BP605T	10	10	10	8	19	T
187N1R0022	BP606T	10	8	10	8	18	T
187N1R0022	BP607P	5	10	5	10	15	L
187N1R0022	BP608P	5	9	5	9	14	L
187N1R0022	BP609P	5	10	5	10	15	L
187N1R0023	BP601T	10	6	10	9	18	T
187N1R0023	BP602T	10	6	10	8	17	T
187N1R0023	BP603T	10	14	10	11	23	T
187N1R0023	BP604T	10	6	10	6	16	T
187N1R0023	BP605T	10	9	10	8	19	T
187N1R0023	BP606T	10	11	10	8	20	T
187N1R0023	BP607P	5	10	5	10	15	L
187N1R0023	BP608P	5	8	5	8	13	L
187N1R0023	BP609P	5	10	5	9	15	L
187N1R0024	BP601T	10	11	10	9	20	T
187N1R0024	BP602T	10	9	10	6	18	T
187N1R0024	BP603T	10	14	10	10	22	T

HTNO	SUBJECT	CM1	SE1	CM2	SE2	Total	SUB_TYPE
187N1R0024	BP604T	10	12	10	10	21	T
187N1R0024	BP605T	10	11	10	12	22	T
187N1R0024	BP606T	10	9	10	8	19	T
187N1R0024	BP607P	5	10	5	10	15	L
187N1R0024	BP608P	5	9	5	9	14	L
187N1R0024	BP609P	5	9	5	10	15	L
187N1R0025	BP601T	10	9	10	8	19	T
187N1R0025	BP602T	10	12	10	10	21	T
187N1R0025	BP603T	10	14	10	12	23	T
187N1R0025	BP604T	10	15	10	10	23	T
187N1R0025	BP605T	10	14	10	14	24	T
187N1R0025	BP606T	10	11	10	11	21	T
187N1R0025	BP607P	5	10	5	10	15	L
187N1R0025	BP608P	5	9	5	9	14	L
187N1R0025	BP609P	5	9	5	10	15	L
187N1R0028	BP601T	10	12	10	10	21	T
187N1R0028	BP602T	10	12	10	13	23	T
187N1R0028	BP603T	10	15	10	11	23	T
187N1R0028	BP604T	10	13	10	11	22	T
187N1R0028	BP605T	10	14	10	15	25	T
187N1R0028	BP606T	10	12	10	12	22	T
187N1R0028	BP607P	5	10	5	10	15	L
187N1R0028	BP608P	5	10	5	10	15	L
187N1R0028	BP609P	5	10	5	10	15	L
187N1R0029	BP601T	10	12	10	9	21	T
187N1R0029	BP602T	10	9	10	9	19	T
187N1R0029	BP603T	10	14	10	11	23	T
187N1R0029	BP604T	10	13	10	9	21	T
187N1R0029	BP605T	10	13	10	10	22	T
187N1R0029	BP606T	10	11	10	8	20	T
187N1R0029	BP607P	5	10	5	10	15	L
187N1R0029	BP608P	5	9	5	9	14	L
187N1R0029	BP609P	5	10	5	10	15	L
187N1R0030	BP601T	10	11	10	11	21	T
187N1R0030	BP602T	10	8	10	9	19	T
187N1R0030	BP603T	10	12	10	11	22	T
187N1R0030	BP604T	10	13	10	7	20	T
187N1R0030	BP605T	10	12	10	12	22	T
187N1R0030	BP606T	10	9	10	10	20	T
187N1R0030	BP607P	5	10	5	10	15	L
187N1R0030	BP608P	5	9	5	9	14	L
187N1R0030	BP609P	5	10	5	10	15	L
187N1R0031	BP601T	10	12	10	13	23	T
187N1R0031	BP602T	10	11	10	10	21	T
187N1R0031	BP603T	10	13	10	11	22	T
187N1R0031	BP604T	10	12	10	10	21	T
187N1R0031	BP605T	10	10	10	9	20	T
187N1R0031	BP606T	10	10	10	10	20	T
187N1R0031	BP607P	5	10	5	10	15	L
187N1R0031	BP608P	5	9	5	9	14	L

HTNO	SUBJECT	CM1	SE1	CM2	SE2	Total	SUB_TYPE
187N1R0031	BP609P	5	10	5	10	15	L
187N1R0033	BP601T	10	12	10	13	23	T
187N1R0033	BP602T	10	11	10	11	21	T
187N1R0033	BP603T	10	13	10	12	23	T
187N1R0033	BP604T	10	12	10	11	22	T
187N1R0033	BP605T	10	14	10	14	24	T
187N1R0033	BP606T	10	11	10	9	20	T
187N1R0033	BP607P	5	10	5	10	15	L
187N1R0033	BP608P	5	9	5	9	14	L
187N1R0033	BP609P	5	10	5	10	15	L
187N1R0034	BP601T	10	11	10	13	22	T
187N1R0034	BP602T	10	10	10	12	21	T
187N1R0034	BP603T	10	14	10	12	23	T
187N1R0034	BP604T	10	13	10	11	22	T
187N1R0034	BP605T	10	14	10	13	24	T
187N1R0034	BP606T	10	11	10	4	18	T
187N1R0034	BP607P	5	10	5	10	15	L
187N1R0034	BP608P	5	9	5	9	14	L
187N1R0034	BP609P	5	10	5	10	15	L
187N1R0035	BP601T	10	10	10	13	22	T
187N1R0035	BP602T	10	11	10	9	20	T
187N1R0035	BP603T	10	14	10	12	23	T
187N1R0035	BP604T	10	14	10	9	22	T
187N1R0035	BP605T	10	13	10	14	24	T
187N1R0035	BP606T	10	11	10	11	21	T
187N1R0035	BP607P	5	10	5	10	15	L
187N1R0035	BP608P	5	9	5	9	14	L
187N1R0035	BP609P	5	10	5	10	15	L
187N1R0036	BP601T	10	10	10	13	22	T
187N1R0036	BP602T	10	9	10	6	18	T
187N1R0036	BP603T	10	14	10	12	23	T
187N1R0036	BP604T	10	9	10	7	18	T
187N1R0036	BP605T	10	11	10	9	20	T
187N1R0036	BP606T	10	10	10	8	19	T
187N1R0036	BP607P	5	10	5	10	15	L
187N1R0036	BP608P	5	8	5	9	14	L
187N1R0036	BP609P	5	9	5	10	15	L
187N1R0037	BP601T	10	10	10	10	20	T
187N1R0037	BP602T	10	9	10	4	17	T
187N1R0037	BP603T	10	14	10	10	22	T
187N1R0037	BP604T	10	9	10	7	18	T
187N1R0037	BP605T	10	9	10	6	18	T
187N1R0037	BP606T	10	8	10	8	18	T
187N1R0037	BP607P	5	10	5	10	15	L
187N1R0037	BP608P	5	8	5	9	14	L
187N1R0037	BP609P	5	10	5	10	15	L
187N1R0038	BP601T	10	10	10	12	21	T
187N1R0038	BP602T	10	10	10	9	20	T
187N1R0038	BP603T	10	14	10	10	22	T
187N1R0038	BP604T	10	12	10	10	21	T

HTNO	SUBJECT	CM1	SE1	CM2	SE2	Total	SUB_TYPE
187N1R0038	BP605T	10	12	10	12	22	T
187N1R0038	BP606T	10	10	10	8	19	T
187N1R0038	BP607P	5	10	5	10	15	L
187N1R0038	BP608P	5	9	5	9	14	L
187N1R0038	BP609P	5	10	5	10	15	L
187N1R0039	BP601T	10	12	10	10	21	T
187N1R0039	BP602T	10	11	10	10	21	T
187N1R0039	BP603T	10	12	10	11	22	T
187N1R0039	BP604T	10	11	10	11	21	T
187N1R0039	BP605T	10	14	10	13	24	T
187N1R0039	BP606T	10	10	10	11	21	T
187N1R0039	BP607P	5	10	5	10	15	L
187N1R0039	BP608P	5	9	5	9	14	L
187N1R0039	BP609P	5	10	5	9	15	L
187N1R0040	BP601T	10	12	10	10	21	T
187N1R0040	BP602T	10	11	10	12	22	T
187N1R0040	BP603T	10	12	10	9	21	T
187N1R0040	BP604T	10	11	10	12	22	T
187N1R0040	BP605T	10	13	10	14	24	T
187N1R0040	BP606T	10	10	10	10	20	T
187N1R0040	BP607P	5	10	5	10	15	L
187N1R0040	BP608P	5	9	5	9	14	L
187N1R0040	BP609P	5	10	5	10	15	L
187N1R0041	BP601T	10	12	10	11	22	T
187N1R0041	BP602T	10	11	10	9	20	T
187N1R0041	BP603T	10	13	10	10	22	T
187N1R0041	BP604T	10	14	10	14	24	T
187N1R0041	BP605T	10	13	10	14	24	T
187N1R0041	BP606T	10	11	10	10	21	T
187N1R0041	BP607P	5	10	5	10	15	L
187N1R0041	BP608P	5	9	5	9	14	L
187N1R0041	BP609P	5	10	5	10	15	L
187N1R0042	BP601T	10	10	10	11	21	T
187N1R0042	BP602T	10	12	10	12	22	T
187N1R0042	BP603T	10	14	10	11	23	T
187N1R0042	BP604T	10	15	10	15	25	T
187N1R0042	BP605T	10	14	10	14	24	T
187N1R0042	BP606T	10	12	10	11	22	T
187N1R0042	BP607P	5	10	5	10	15	L
187N1R0042	BP608P	5	9	5	9	14	L
187N1R0042	BP609P	5	10	5	9	15	L
187N1R0043	BP601T	10	9	10	10	20	T
187N1R0043	BP602T	10	10	10	8	19	T
187N1R0043	BP603T	10	14	10	12	23	T
187N1R0043	BP604T	10	10	10	10	20	T
187N1R0043	BP605T	10	11	10	7	19	T
187N1R0043	BP606T	10	9	10	8	19	T
187N1R0043	BP607P	5	10	5	10	15	L
187N1R0043	BP608P	5	9	5	9	14	L
187N1R0043	BP609P	5	10	5	10	15	L

HTNO	SUBJECT	CM1	SE1	CM2	SE2	Total	SUB_TYPE
187N1R0044	BP601T	10	11	10	11	21	T
187N1R0044	BP602T	10	10	10	11	21	T
187N1R0044	BP603T	10	14	10	11	23	T
187N1R0044	BP604T	10	10	10	9	20	T
187N1R0044	BP605T	10	13	10	10	22	T
187N1R0044	BP606T	10	10	10	9	20	T
187N1R0044	BP607P	5	10	5	10	15	L
187N1R0044	BP608P	5	9	5	9	14	L
187N1R0044	BP609P	5	10	5	9	15	L
187N1R0045	BP601T	10	11	10	10	21	T
187N1R0045	BP602T	10	10	10	10	20	T
187N1R0045	BP603T	10	14	10	11	23	T
187N1R0045	BP604T	10	13	10	14	24	T
187N1R0045	BP605T	10	13	10	12	23	T
187N1R0045	BP606T	10	10	10	9	20	T
187N1R0045	BP607P	5	0	5	0	5	L
187N1R0045	BP608P	5	0	5	0	5	L
187N1R0045	BP609P	5	0	5	0	5	L
187N1R0046	BP601T	10	12	10	11	22	T
187N1R0046	BP602T	10	11	10	12	22	T
187N1R0046	BP603T	10	14	10	12	23	T
187N1R0046	BP604T	10	13	10	12	23	T
187N1R0046	BP605T	10	12	10	13	23	T
187N1R0046	BP606T	10	10	10	11	21	T
187N1R0046	BP607P	5	10	5	10	15	L
187N1R0046	BP608P	5	9	5	9	14	L
187N1R0046	BP609P	5	10	5	9	15	L
187N1R0047	BP601T	10	10	10	7	19	T
187N1R0047	BP602T	10	9	10	7	18	T
187N1R0047	BP603T	10	11	10	8	20	T
187N1R0047	BP604T	10	11	10	8	20	T
187N1R0047	BP605T	10	8	10	8	18	T
187N1R0047	BP606T	10	10	10	7	19	T
187N1R0047	BP607P	5	10	5	10	15	L
187N1R0047	BP608P	5	9	5	9	14	L
187N1R0047	BP609P	5	10	5	10	15	L
187N1R0048	BP601T	10	10	10	9	20	T
187N1R0048	BP602T	10	11	10	9	20	T
187N1R0048	BP603T	10	13	10	11	22	T
187N1R0048	BP604T	10	13	10	12	23	T
187N1R0048	BP605T	10	13	10	11	22	T
187N1R0048	BP606T	10	11	10	9	20	T
187N1R0048	BP607P	5	10	5	10	15	L
187N1R0048	BP608P	5	9	5	9	14	L
187N1R0048	BP609P	5	10	5	9	15	L
187N1R0049	BP601T	10	8	10	11	20	T
187N1R0049	BP602T	10	7	10	8	18	T
187N1R0049	BP603T	10	12	10	10	21	T
187N1R0049	BP604T	10	10	10	7	19	T
187N1R0049	BP605T	10	9	10	8	19	T

HTNO	SUBJECT	CM1	SE1	CM2	SE2	Total	SUB_TYPE
187N1R0049	BP606T	10	9	10	7	18	T
187N1R0049	BP607P	5	10	5	10	15	L
187N1R0049	BP608P	5	9	5	9	14	L
187N1R0049	BP609P	5	9	5	10	15	L
187N1R0050	BP601T	10	5	10	2	14	T
187N1R0050	BP602T	10	9	10	8	19	T
187N1R0050	BP603T	10	13	10	8	21	T
187N1R0050	BP604T	10	8	10	6	17	T
187N1R0050	BP605T	10	8	10	11	20	T
187N1R0050	BP606T	10	12	10	10	21	T
187N1R0050	BP607P	5	10	5	10	15	L
187N1R0050	BP608P	5	9	5	8	14	L
187N1R0050	BP609P	5	10	5	10	15	L
187N1R0051	BP601T	10	12	10	11	22	T
187N1R0051	BP602T	10	10	10	7	19	T
187N1R0051	BP603T	10	13	10	9	21	T
187N1R0051	BP604T	10	13	10	9	21	T
187N1R0051	BP605T	10	14	10	11	23	T
187N1R0051	BP606T	10	10	10	8	19	T
187N1R0051	BP607P	5	10	5	10	15	L
187N1R0051	BP608P	5	9	5	9	14	L
187N1R0051	BP609P	5	10	5	9	15	L
187N1R0052	BP601T	10	12	10	12	22	T
187N1R0052	BP602T	10	9	10	10	20	T
187N1R0052	BP603T	10	13	10	10	22	T
187N1R0052	BP604T	10	11	10	12	22	T
187N1R0052	BP605T	10	14	10	13	24	T
187N1R0052	BP606T	10	11	10	11	21	T
187N1R0052	BP607P	5	10	5	10	15	L
187N1R0052	BP608P	5	8	5	9	14	L
187N1R0052	BP609P	5	10	5	9	15	L
187N1R0053	BP601T	10	12	10	10	21	T
187N1R0053	BP602T	10	8	10	7	18	T
187N1R0053	BP603T	10	14	10	7	21	T
187N1R0053	BP604T	10	11	10	8	20	T
187N1R0053	BP605T	10	12	10	10	21	T
187N1R0053	BP606T	10	9	10	7	18	T
187N1R0053	BP607P	5	10	5	10	15	L
187N1R0053	BP608P	5	8	5	8	13	L
187N1R0053	BP609P	5	10	5	10	15	L
187N1R0054	BP601T	10	12	10	10	21	T
187N1R0054	BP602T	10	9	10	7	18	T
187N1R0054	BP603T	10	14	10	8	21	T
187N1R0054	BP604T	10	11	10	11	21	T
187N1R0054	BP605T	10	12	10	10	21	T
187N1R0054	BP606T	10	11	10	6	19	T
187N1R0054	BP607P	5	10	5	10	15	L
187N1R0054	BP608P	5	9	5	8	14	L
187N1R0054	BP609P	5	10	5	9	15	L
187N1R0055	BP601T	10	13	10	12	23	T

HTNO	SUBJECT	CM1	SE1	CM2	SE2	Total	SUB_TYPE
187N1R0055	BP602T	10	12	10	10	21	T
187N1R0055	BP603T	10	14	10	10	22	T
187N1R0055	BP604T	10	12	10	12	22	T
187N1R0055	BP605T	10	13	10	15	24	T
187N1R0055	BP606T	10	10	10	11	21	T
187N1R0055	BP607P	5	10	5	10	15	L
187N1R0055	BP608P	5	9	5	9	14	L
187N1R0055	BP609P	5	10	5	9	15	L
187N1R0056	BP601T	10	6	10	5	16	T
187N1R0056	BP602T	10	7	10	7	17	T
187N1R0056	BP603T	10	11	10	8	20	T
187N1R0056	BP604T	10	9	10	8	19	T
187N1R0056	BP605T	10	11	10	9	20	T
187N1R0056	BP606T	10	8	10	8	18	T
187N1R0056	BP607P	5	10	5	10	15	L
187N1R0056	BP608P	5	9	5	9	14	L
187N1R0056	BP609P	5	10	5	10	15	L
187N1R0057	BP601T	10	0	10	0	10	T
187N1R0057	BP602T	10	0	10	0	10	T
187N1R0057	BP603T	10	0	10	0	10	T
187N1R0057	BP604T	10	0	10	0	10	T
187N1R0057	BP605T	10	0	10	0	10	T
187N1R0057	BP606T	10	0	10	0	10	T
187N1R0057	BP607P	5	10	5	10	15	L
187N1R0057	BP608P	5	8	5	8	13	L
187N1R0057	BP609P	5	10	5	10	15	L
187N1R0058	BP601T	10	13	10	11	22	T
187N1R0058	BP602T	10	9	10	8	19	T
187N1R0058	BP603T	10	13	10	11	22	T
187N1R0058	BP604T	10	9	10	10	20	T
187N1R0058	BP605T	10	14	10	13	24	T
187N1R0058	BP606T	10	7	10	9	18	T
187N1R0058	BP607P	5	10	5	10	15	L
187N1R0058	BP608P	5	9	5	9	14	L
187N1R0058	BP609P	5	10	5	9	15	L
187N1R0059	BP601T	10	13	10	12	23	T
187N1R0059	BP602T	10	9	10	9	19	T
187N1R0059	BP603T	10	14	10	9	22	T
187N1R0059	BP604T	10	11	10	9	20	T
187N1R0059	BP605T	10	13	10	11	22	T
187N1R0059	BP606T	10	10	10	10	20	T
187N1R0059	BP607P	5	10	5	10	15	L
187N1R0059	BP608P	5	8	5	9	14	L
187N1R0059	BP609P	5	10	5	10	15	L
187N1R0060	BP601T	10	12	10	12	22	T
187N1R0060	BP602T	10	10	10	9	20	T
187N1R0060	BP603T	10	14	10	10	22	T
187N1R0060	BP604T	10	12	10	12	22	T
187N1R0060	BP605T	10	11	10	13	22	T
187N1R0060	BP606T	10	11	10	10	21	T

HTNO	SUBJECT	CM1	SE1	CM2	SE2	Total	SUB_TYPE
187N1R0060	BP607P	5	10	5	10	15	L
187N1R0060	BP608P	5	8	5	8	13	L
187N1R0060	BP609P	5	10	5	10	15	L
187N1R0061	BP601T	10	12	10	8	20	T
187N1R0061	BP602T	10	8	10	8	18	T
187N1R0061	BP603T	10	14	10	8	21	T
187N1R0061	BP604T	10	12	10	7	20	T
187N1R0061	BP605T	10	12	10	13	23	T
187N1R0061	BP606T	10	8	10	10	19	T
187N1R0061	BP607P	5	10	5	10	15	L
187N1R0061	BP608P	5	8	5	9	14	L
187N1R0061	BP609P	5	10	5	10	15	L
187N1R0062	BP601T	10	13	10	12	23	T
187N1R0062	BP602T	10	9	10	11	20	T
187N1R0062	BP603T	10	14	10	10	22	T
187N1R0062	BP604T	10	13	10	11	22	T
187N1R0062	BP605T	10	14	10	13	24	T
187N1R0062	BP606T	10	12	10	12	22	T
187N1R0062	BP607P	5	10	5	10	15	L
187N1R0062	BP608P	5	9	5	9	14	L
187N1R0062	BP609P	5	10	5	10	15	L
187N1R0063	BP601T	10	12	10	10	21	T
187N1R0063	BP602T	10	9	10	11	20	T
187N1R0063	BP603T	10	14	10	10	22	T
187N1R0063	BP604T	10	8	10	7	18	T
187N1R0063	BP605T	10	10	10	10	20	T
187N1R0063	BP606T	10	8	10	12	20	T
187N1R0063	BP607P	5	10	5	10	15	L
187N1R0063	BP608P	5	7	5	8	13	L
187N1R0063	BP609P	5	9	5	10	15	L
187N1R0064	BP601T	10	12	10	13	23	T
187N1R0064	BP602T	10	12	10	13	23	T
187N1R0064	BP603T	10	14	10	12	23	T
187N1R0064	BP604T	10	14	10	13	24	T
187N1R0064	BP605T	10	14	10	13	24	T
187N1R0064	BP606T	10	11	10	14	23	T
187N1R0064	BP607P	5	10	5	10	15	L
187N1R0064	BP608P	5	9	5	9	14	L
187N1R0064	BP609P	5	10	5	10	15	L
187N1R0065	BP601T	10	12	10	11	22	T
187N1R0065	BP602T	10	13	10	12	23	T
187N1R0065	BP603T	10	14	10	12	23	T
187N1R0065	BP604T	10	14	10	13	24	T
187N1R0065	BP605T	10	15	10	14	25	T
187N1R0065	BP606T	10	13	10	13	23	T
187N1R0065	BP607P	5	10	5	10	15	L
187N1R0065	BP608P	5	10	5	10	15	L
187N1R0065	BP609P	5	10	5	10	15	L
187N1R0066	BP601T	10	12	10	12	22	T
187N1R0066	BP602T	10	12	10	11	22	T

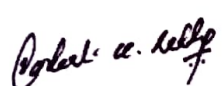
HTNO	SUBJECT	CM1	SE1	CM2	SE2	Total	SUB_TYPE
187N1R0066	BP603T	10	14	10	10	22	T
187N1R0066	BP604T	10	14	10	14	24	T
187N1R0066	BP605T	10	15	10	14	25	T
187N1R0066	BP606T	10	11	10	14	23	T
187N1R0066	BP607P	5	10	5	10	15	L
187N1R0066	BP608P	5	9	5	9	14	L
187N1R0066	BP609P	5	10	5	10	15	L
187N1R0067	BP601T	10	7	10	7	17	T
187N1R0067	BP602T	10	7	10	7	17	T
187N1R0067	BP603T	10	9	10	10	20	T
187N1R0067	BP604T	10	7	10	6	17	T
187N1R0067	BP605T	10	10	10	8	19	T
187N1R0067	BP606T	10	7	10	9	18	T
187N1R0067	BP607P	5	10	5	10	15	L
187N1R0067	BP608P	5	8	5	9	14	L
187N1R0067	BP609P	5	10	5	9	15	L
187N1R0068	BP601T	10	10	10	6	18	T
187N1R0068	BP602T	10	9	10	8	19	T
187N1R0068	BP603T	10	10	10	10	20	T
187N1R0068	BP604T	10	11	10	7	19	T
187N1R0068	BP605T	10	11	10	9	20	T
187N1R0068	BP606T	10	7	10	8	18	T
187N1R0068	BP607P	5	10	5	10	15	L
187N1R0068	BP608P	5	8	5	8	13	L
187N1R0068	BP609P	5	10	5	9	15	L
187N1R0070	BP601T	10	12	10	12	22	T
187N1R0070	BP602T	10	13	10	12	23	T
187N1R0070	BP603T	10	12	10	10	21	T
187N1R0070	BP604T	10	13	10	11	22	T
187N1R0070	BP605T	10	14	10	13	24	T
187N1R0070	BP606T	10	11	10	9	20	T
187N1R0070	BP607P	5	10	5	10	15	L
187N1R0070	BP608P	5	9	5	8	14	L
187N1R0070	BP609P	5	10	5	9	15	L
187N1R0071	BP601T	10	0	10	0	10	T
187N1R0071	BP602T	10	0	10	0	10	T
187N1R0071	BP603T	10	12	10	11	22	T
187N1R0071	BP604T	10	13	10	8	21	T
187N1R0071	BP605T	10	14	10	9	22	T
187N1R0071	BP606T	10	10	10	8	19	T
187N1R0071	BP607P	5	0	5	0	5	L
187N1R0071	BP608P	5	8	5	8	13	L
187N1R0071	BP609P	5	0	5	0	5	L
187N1R0072	BP601T	10	12	10	12	22	T
187N1R0072	BP602T	10	12	10	13	23	T
187N1R0072	BP603T	10	14	10	12	23	T
187N1R0072	BP604T	10	13	10	12	23	T
187N1R0072	BP605T	10	14	10	14	24	T
187N1R0072	BP606T	10	10	10	12	21	T
187N1R0072	BP607P	5	10	5	10	15	L

HTNO	SUBJECT	CM1	SE1	CM2	SE2	Total	SUB_TYPE
187N1R0072	BP608P	5	9	5	9	14	L
187N1R0072	BP609P	5	10	5	9	15	L
187N1R0073	BP601T	10	12	10	12	22	T
187N1R0073	BP602T	10	12	10	11	22	T
187N1R0073	BP603T	10	14	10	14	24	T
187N1R0073	BP604T	10	11	10	11	21	T
187N1R0073	BP605T	10	11	10	13	22	T
187N1R0073	BP606T	10	10	10	10	20	T
187N1R0073	BP607P	5	10	5	10	15	L
187N1R0073	BP608P	5	9	5	9	14	L
187N1R0073	BP609P	5	10	5	10	15	L
187N1R0074	BP601T	10	13	10	12	23	T
187N1R0074	BP602T	10	9	10	10	20	T
187N1R0074	BP603T	10	10	10	13	22	T
187N1R0074	BP604T	10	11	10	8	20	T
187N1R0074	BP605T	10	12	10	13	23	T
187N1R0074	BP606T	10	9	10	10	20	T
187N1R0074	BP607P	5	10	5	10	15	L
187N1R0074	BP608P	5	9	5	8	14	L
187N1R0074	BP609P	5	10	5	9	15	L
187N1R0075	BP601T	10	11	10	11	21	T
187N1R0075	BP602T	10	12	10	10	21	T
187N1R0075	BP603T	10	11	10	10	21	T
187N1R0075	BP604T	10	11	10	10	21	T
187N1R0075	BP605T	10	12	10	12	22	T
187N1R0075	BP606T	10	11	10	12	22	T
187N1R0075	BP607P	5	10	5	10	15	L
187N1R0075	BP608P	5	9	5	9	14	L
187N1R0075	BP609P	5	10	5	9	15	L
187N1R0076	BP601T	10	12	10	12	22	T
187N1R0076	BP602T	10	12	10	12	22	T
187N1R0076	BP603T	10	13	10	10	22	T
187N1R0076	BP604T	10	13	10	11	22	T
187N1R0076	BP605T	10	14	10	13	24	T
187N1R0076	BP606T	10	11	10	12	22	T
187N1R0076	BP607P	5	10	5	10	15	L
187N1R0076	BP608P	5	9	5	9	14	L
187N1R0076	BP609P	5	10	5	10	15	L
187N1R0077	BP601T	10	12	10	11	22	T
187N1R0077	BP602T	10	9	10	9	19	T
187N1R0077	BP603T	10	13	10	10	22	T
187N1R0077	BP604T	10	11	10	11	21	T
187N1R0077	BP605T	10	11	10	12	22	T
187N1R0077	BP606T	10	10	10	10	20	T
187N1R0077	BP607P	5	10	5	10	15	L
187N1R0077	BP608P	5	9	5	9	14	L
187N1R0077	BP609P	5	10	5	10	15	L
187N1R0078	BP601T	10	11	10	10	21	T
187N1R0078	BP602T	10	12	10	11	22	T
187N1R0078	BP603T	10	12	10	11	22	T

HTNO	SUBJECT	CM1	SE1	CM2	SE2	Total	SUB_TYPE
187N1R0078	BP604T	10	13	10	11	22	T
187N1R0078	BP605T	10	14	10	14	24	T
187N1R0078	BP606T	10	8	10	11	20	T
187N1R0078	BP607P	5	10	5	10	15	L
187N1R0078	BP608P	5	9	5	10	15	L
187N1R0078	BP609P	5	10	5	10	15	L
187N1R0079	BP601T	10	10	10	10	20	T
187N1R0079	BP602T	10	10	10	9	20	T
187N1R0079	BP603T	10	13	10	11	22	T
187N1R0079	BP604T	10	10	10	8	19	T
187N1R0079	BP605T	10	11	10	12	22	T
187N1R0079	BP606T	10	9	10	9	19	T
187N1R0079	BP607P	5	10	5	10	15	L
187N1R0079	BP608P	5	9	5	9	14	L
187N1R0079	BP609P	5	10	5	10	15	L
187N1R0080	BP601T	10	11	10	10	21	T
187N1R0080	BP602T	10	9	10	10	20	T
187N1R0080	BP603T	10	14	10	10	22	T
187N1R0080	BP604T	10	11	10	8	20	T
187N1R0080	BP605T	10	14	10	15	25	T
187N1R0080	BP606T	10	9	10	11	20	T
187N1R0080	BP607P	5	10	5	10	15	L
187N1R0080	BP608P	5	10	5	9	15	L
187N1R0080	BP609P	5	10	5	10	15	L
187N1R0081	BP601T	10	11	10	12	22	T
187N1R0081	BP602T	10	11	10	10	21	T
187N1R0081	BP603T	10	10	10	11	21	T
187N1R0081	BP604T	10	14	10	8	21	T
187N1R0081	BP605T	10	11	10	9	20	T
187N1R0081	BP606T	10	11	10	8	20	T
187N1R0081	BP607P	5	0	5	0	5	L
187N1R0081	BP608P	5	7	5	9	13	L
187N1R0081	BP609P	5	0	5	0	5	L
187N1R0082	BP601T	10	11	10	11	21	T
187N1R0082	BP602T	10	11	10	11	21	T
187N1R0082	BP603T	10	12	10	9	21	T
187N1R0082	BP604T	10	13	10	8	21	T
187N1R0082	BP605T	10	14	10	14	24	T
187N1R0082	BP606T	10	10	10	12	21	T
187N1R0082	BP607P	5	10	5	10	15	L
187N1R0082	BP608P	5	9	5	9	14	L
187N1R0082	BP609P	5	10	5	10	15	L
187N1R0083	BP601T	10	12	10	11	22	T
187N1R0083	BP602T	10	11	10	11	21	T
187N1R0083	BP603T	10	13	10	11	22	T
187N1R0083	BP604T	10	12	10	12	22	T
187N1R0083	BP605T	10	14	10	14	24	T
187N1R0083	BP606T	10	10	10	9	20	T
187N1R0083	BP607P	5	10	5	10	15	L
187N1R0083	BP608P	5	9	5	9	14	L

HTNO	SUBJECT	CM1	SE1	CM2	SE2	Total	SUB_TYPE
187N1R0083	BP609P	5	10	5	9	15	L
187N1R0084	BP601T	10	12	10	10	21	T
187N1R0084	BP602T	10	12	10	11	22	T
187N1R0084	BP603T	10	12	10	11	22	T
187N1R0084	BP604T	10	13	10	9	21	T
187N1R0084	BP605T	10	14	10	13	24	T
187N1R0084	BP606T	10	9	10	9	19	T
187N1R0084	BP607P	5	10	5	10	15	L
187N1R0084	BP608P	5	9	5	9	14	L
187N1R0084	BP609P	5	10	5	9	15	L
187N1R0085	BP601T	10	11	10	11	21	T
187N1R0085	BP602T	10	9	10	10	20	T
187N1R0085	BP603T	10	13	10	11	22	T
187N1R0085	BP604T	10	11	10	11	21	T
187N1R0085	BP605T	10	10	10	12	21	T
187N1R0085	BP606T	10	8	10	9	19	T
187N1R0085	BP607P	5	10	5	10	15	L
187N1R0085	BP608P	5	9	5	9	14	L
187N1R0085	BP609P	5	10	5	9	15	L
187N1R0086	BP601T	10	11	10	9	20	T
187N1R0086	BP602T	10	9	10	8	19	T
187N1R0086	BP603T	10	11	10	11	21	T
187N1R0086	BP604T	10	11	10	6	19	T
187N1R0086	BP605T	10	12	10	12	22	T
187N1R0086	BP606T	10	7	10	9	18	T
187N1R0086	BP607P	5	10	5	10	15	L
187N1R0086	BP608P	5	9	5	9	14	L
187N1R0086	BP609P	5	10	5	10	15	L
187N1R0088	BP601T	10	11	10	11	21	T
187N1R0088	BP602T	10	10	10	10	20	T
187N1R0088	BP603T	10	13	10	11	22	T
187N1R0088	BP604T	10	13	10	10	22	T
187N1R0088	BP605T	10	13	10	13	23	T
187N1R0088	BP606T	10	10	10	7	19	T
187N1R0088	BP607P	5	10	5	10	15	L
187N1R0088	BP608P	5	9	5	9	14	L
187N1R0088	BP609P	5	10	5	9	15	L


 Verified by: **PRINCIPAL**
VIJAYA INSTITUTE OF
PHARMACEUTICAL SCIENCES FOR WOMEN
 Date: 04-09-2021 09:55
 ENIKEPADU, VIJAYAWADA - 521 11


Controller of Examinations