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

6. Attendance and progress

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

7. Program/Course credit structure

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

7.1. Credit assignment

7.1.1. Theory and Laboratory courses

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

7.2. Minimum credit requirements

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

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

8. Academic work

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

9. Course of study

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

Table-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 beconducted by the university except for the subjects with asterix symbol (*) in table I and II for which examinations shall be conducted by the subject experts at college level and the marks/grades shall be submitted to the university.

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

Semester I

Course 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
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12. Promotion and award of grades

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

13. Carry forward of marks

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

14. Improvement of internal assessment

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

15. Re-examination of end semester examinations

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

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

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

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

17. Grading of performances

17.1. Letter grades and grade points allocations:

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

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 ABand a corresponding grade point of zero. He/she should reappear for the said evaluation/examination in due course.

18. The Semester grade point average (SGPA)

The performance of a student in a semester is indicated by a number called 'Semester Grade Point Average' (SGPA). The SGPA is the weighted average of the grade points obtainedin 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 pointsin 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 ABSgrade awarded in that semester. For example if a learner has a F or ABS grade in course 4, theSGPA shall then be computed as:

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

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

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

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

20. Declaration of class

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

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

21. Project work

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

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

Evaluation of Dissertation Book:

Objective(s) of the work done		15 Marks
Methodology adopted		20 Marks
Results and Discussions		20 Marks
Conclusions and Outcomes		20 Marks
	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 leveland grade point shall be awarded.

24. Award of Ranks

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

25. Award of degree

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

26. Duration for completion of the program of study

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

27. Re-admission after break of study

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

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

Website: www.jntuk.edu.in
Email: dap@jntuk.edu.in

Phone: 7893407555

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

Lr. No. JNTUK/DAP/AC/I Year/B. Pharmacy/2023-24 *Date: 21-11-2023*

Dr. K. VENKATA REDDY,
M.Tech, Ph.D.,
Director i/c, Academic Planning

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

Academic Calendar of I Year B. Pharmacy for Academic year 2023-24

I SEMESTER			
Description	**From**	**To**	**Weeks**
Commencement of Class Work	20.11.2023		
Induction Programme (Zero Semester)	20.11.2023	02.12.2023	2 W
I Unit of Instruction	04.12.2023	27.01.2024	8 W
I Mid Examinations	22.01.2024	27.01.2024	
II Unit of Instructions	29.01.2024	23.03.2024	8 W
II Mid Examinations	18.03.2024	23.03.2024	
Preparation & Practicals	25.03.2024	30.03.2024	1 W
End Examinations	01.04.2024	13.04.2024	2 W
Commencement of II Semester Class Work	15.04.2024		
II SEMESTER			
Commencement of Class Work	15.04.2024		
I Unit of Instruction	15.04.2024	08.06.2024	8 W
I Mid Examinations	03.04.2024	08.06.2024	
II Unit of Instructions	10.06.2024	03.08.2024	8 W
II Mid Examinations	29.08.2024	03.08.2024	
Preparation & Practicals	05.08.2024	10.08.2024	1 W
End Examinations	12.08.2024	24.08.2024	2 W

Director i/c
Academic Planning

Director
Academic Planning
JNTUK Kakinada

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

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
Copy to Controller of Examinations, JNTUK

VIJAYA INSTITUTE OF PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU VIJAYAWADA

INSTITUTIONAL EXAMINATION COMMITTEE

VIJAYA INSTITUTE OFPHARMACEUTICAL SCIENCES FOR WOMEN
Enikepadu, Vijayawada – 521108

Date: 26-07-2023

OFFICE ORDER

INSTITUTIONAL EXAMINATION COMMITTEE

The Institutional Examination Committee has been constructed for smooth conduct of sessional / end semester examinations for the academic year 2023 – 2024 for the period of 06-09-2023 to 06-08-2024. Following staff members are appointed as Internal Squad Committee.

S.NO	NAME	DESIGNATION	POSITION	SIGNATURE
1	Dr. K. Padmalatha	Principal	President	
2	Mr. S. Venkateswara Rao	Professor	Chairman	
3	Mr. A. Jayarami Reddy	Assoc. Professor	Member	
4	Mrs. A.V.S. Hima bindu	Assoc. Professor	Member	
5	Mrs. S. Archana	Assoc. Professor	Member	

Functions and Responsibilities:

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

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

VIJAYA INSTITUTE OF PHARMACEUTICAL SCIENCES FOR WOMEN ENIKEPADU VIJAYAWADA

Dr. K. Padmalatha
PRINCIPAL

PRINCIPAL
VIJAYAINSTITUTE OF
PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU VIJAYAWADA-520 108

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

Date: 26.04.2023

I B.PHARM/ I SEM II MID EXAM TIME TABLE

Date	Session	Subject	Staff Name	Staff Signature
01.05.2023 (Monday)	Afternoon	Human Anatomy and Physiology-I (BP101T)	Mrs. K. Radha	K. Radha
02.05.2023 (Tuesday)	Afternoon	Pharmaceutical Analysis (BP102T)	Mrs. G. Bhavani	G. Bhavani
03.05.2023 (Wednesday)	Afternoon	Pharmaceutics – I (BP103T)	Mrs. P. M. M. Nagalakshmi Varma	
04.05.2023 (Thursday)	Afternoon	Pharmaceutical Inorganic Chemistry (BP104T)	Mrs. Ch. Swathi	ch. Swathi
08.05.2023 (Monday)	Morning	Remedial Mathematics (BP106RMT)	Mrs. V. Nirmala Hepsiba	Hepsiba
		Remedial Biology (BP106RBT)	Mr. A. Jayarami Reddy	AJR
	Afternoon	Communication Skills (BP105T)	Mrs. V. Vandana Devi	Vandana

NOTE:

1. **Timings:**
   Morning Session : 10.00AM – 12.00PM
   Afternoon Session : 02.00PM – 04.00PM
2. Send the Question Papers to Exam Section Mail. Id: vipwexams@gmail.com

Vijaya Institute of Pharmaceutical Sciences for Women ENIKEPADU VIJAYAWADA

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

Principal 26/4
(Dr. K. Padmalatha)
VIJAYA INSTITUTE OF
PHARMACEUTICAL SCIENCES FOR WOMEN
ENIKEPADU, VIJAYAWADA
PIN - 521 108

VIJAYA INSTITUTE OF PHARMACEUTICAL SCIENCES FOR WOMEN

ENIKEPADU, VIJAYAWADA - 521108

I B. PHARM II SEM II MID EXAMS, AUGUST 2024
STAFF INVIGILATION DUTIES

Time: 02.00 PM to 04.00 PM

DATE	Room - 1		Room - 2		Room - 3		Room - 4	
	Staff	Sign	Staff	Sign	Staff	Sign	Staff	Sign
08.08.2024 (Thursday)	Mrs. K. Suneetha		Ms. Ch. Keerthi		Ms. K. Sirisha		Mrs. M. Baby Ratnam	
09.08.2024 (Friday)	Mrs. M. Baby Ratnam		Mrs. K. Suneetha		Ms. Ch. Keerthi		Ms. K. Sirisha	
10.08.2024 (Saturday)	Ms. K. Sirisha		Mrs. M. Baby Ratnam		Mrs. K. Suneetha		Ms. Ch. Keerthi	
12.08.2024 (Monday)	Ms. Ch. Keerthi		Ms. K. Sirisha		Mrs. M. Baby Ratnam		Mrs. K. Suneetha	
13.08.2024 (Tuesday)	Mrs. K. Suneetha		Ms. Ch. Keerthi		Ms. K. Sirisha		Mrs. M. Baby Ratnam	
14.08.2024 (Wednesday)	Mrs. M. Baby Ratnam		Mrs. K. Suneetha		Ms. Ch. Keerthi		Ms. K. Sirisha	

Note:

1. Adjustment of the invigilation duties if any, should be made prior to the examination date. Adjustment on the date of examination will not be entertained.
2. The faculty member applying for leave or on duty must make alternate arrangement for invigilation duty.
3. If faculty have class & invigilation at the same time, then they have to adjust the class work and must attend invigilation duty. Exam duty is the highest priorit

S. Venkateswara Rao
EXAMS INCHARGE
VIJAYA INSTITUTE OF PHARMACEUTICAL SCIENCES FOR WOMEN ENIKEPADU VIJAYAWADA 521 108

Exams Incharge
(Dr. S. Venkateswara Rao)

VIJAYA INSTITUTE OF PHARMACEUTICAL SCIENCES FOR WOMEN ENIKEPADU VIJAYAWADA

08/8/24
Principal
(Dr. K. Padmalatha)
VIJAYA INSTITUTE OF PHARMACEUTICAL SCIENCES FOR WOMEN ENIKEPADU, VIJAYAWADA PIN - 521 108

INTERNAL SQUAD COMMITTEE

VIJAYA INSTITUTE OFPHARMACEUTICAL SCIENCES FOR WOMEN
Enikepadu, Vijayawada – 521108

Date: 25-07-2023

OFFICE ORDER

INTERNAL SQUAD COMMITTEE

The Internal Squad Committee has been constructed for smooth conduct of sessional / end semester examinations for the academic year 2023 – 2024 for the period of 06-09-2023 to 06-08-2024. Following staff members are appointed as Internal Squad Committee.

S.NO	NAME	DESIGNATION	POSITION	SIGNATURE
1	Dr. K. Padmalatha	Principal	President	
2	Mr. S. Venkateswara Rao	Assoc. Professor	Chairman	
3	Mr. A. Jayarami Reddy	Asst. Professor	Member	
4	Mrs. A.V.S. Hima bindu	Asst. Professor	Member	
5	Mrs. S. Archana	Asst. Professor	Member	

Responsibilities:

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

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

VIJAYA INSTITUTE OF PHARMACEUTICAL SCIENCES FOR WOMEN ENIKEPADU VIJAYAWADA

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

VIJAYA INSTITUTE OF PHARMACEUTICAL SCIENCES FOR WOMEN

ENIKEPADU, VIJAYAWADA - 521108.

I B. PHARM/ I SEM (PCI) MID EXAM

ATTENDANCE DAIRY

Sub: Pharmaceutical Inorganic Chemistry (BP104T)

S. No	Hall-Ticket No	STUDENT SIGNATURE	
		I MID	II MID
1	237N1R0001	K. Siji	K. Siri
2	237N1R0002	A. Lakshmi Jamu	Absent
3	237N1R0003	A. Leela Rani	A. Leela Rani
4	237N1R0004	A. Pavithra	A. Pavithra
5	237N1R0005	A. Indupriya	A. Indupriya
6	237N1R0006	A. Rishitha	A. Rishitha
7	237N1R0007	A. Keerthana	A. Keerthana
8	237N1R0008	A. Gnana sri	A. Gnana sri
9	237N1R0009	B. prasanna lakshmi	B. prasanna lakshmi
10	237N1R0010	B. Divya.	B. Divya.
11	237N1R0011	B. pujitha sri.	B. pujithasri.
12	237N1R0012	B. Harsha Vardhini	B. Harsha Vardhini
13	237N1R0013	B. Akhila.	B. Akhila
14	237N1R0014	ch. Bharthi	ch. Shruthi
15	237N1R0015	ch. Gayathri	ch. Gayathri.
16	237N1R0016	D. Gayathri	D. Gayathri
17	237N1R0017	D. Hemalatha	D. Hemalatha
18	237N1R0018	D. kavya	D. kavya
19	237N1R0019	D. Naga Halleswari	D. Naga Halleswari
20	237N1R0020	D. Supriya.	D. Supriya
21	237N1R0021	D. Sivarani	D. Sivarani.
22	237N1R0022	D. Bhavana	D. Bhavana
23	237N1R0023	D. Sunitha.	D. Sunitha
24	237N1R0024	D. Tejaswini	D. Tejaswini.
Total Number of Students		24	23
Signature of Invigilator		ch. Swathi	
Exams Incharge		S. Venkatesh	S. Venkatesh
Signature of Head of the Institution			

VIJAYA INSTITUTE OF PHARMACEUTICAL SCIENCES FOR WOMEN

ENIKEPADU, VIJAYAWADA - 521108.

I B. PHARM/ I SEM (PCI) MID EXAM

ATTENDANCE DAIRY

Sub: Pharmaceutical Inorganic Chemistry (BP104T)

S. No	Hall-Ticket No	STUDENT SIGNATURE	
		I MID	II MID
25	237N1R0025	D.Sushma Priya.	D. Sushma Priya.
26	237N1R0026	D.V.Dhanalakshmi	D.V.Dhanalakshmi
27	237N1R0027	G.Jyothika.	G. Jyothika.
28	237N1R0028	G. Akshaya.	G. Akshaya.
29	237N1R0029	G. Nandini	G. Nandini
30	237N1R0030	G.L.Vasavi	G.L.Vasavi
31	237N1R0031	G.Shainy	G.Shainy
32	237N1R0032	G.Komali Priya.	G. Komali Priya
33	237N1R0033	G.Sri Lakshmi	G.Srilakshmi
34	237N1R0034	J.Madhurima	J.Madhurima.
35	237N1R0035	J.Navya	J. Navya
36	237N1R0036	J.Bhavya Sri	J.Bhavya Sri
37	237N1R0037	J.Akshitha.	J.Akshitha
38	237N1R0038	K.Lakshmi Deepika	K.Lakshmi Deepika
39	237N1R0039	K.Arthi Pravallika	K. Arthipravallika
40	237N1R0040	K.Pranathi	K.pranathi
41	237N1R0041	K.deepthi	K.Deepthi
42	237N1R0042	K.Ramya	K.Ramya
43	237N1R0043	K.Indhu.	K.Indhu.
44	237N1R0044	K.Sai Kavya.	K Sai Kavya.
45	237N1R0045	K.Tejaswini	K.Tejaswini
46	237N1R0046	K.Geetha Navya Sri	K.Geetha
47	237N1R0047	K.Meghana	K.Meghana
48	237N1R0048	K.Mahalakshmi	K.Mahalakshmi
Total Number of Students		24	24
Signature of Invigilator		G. Sandhya rani	Ch. Kiranmai
Exams Incharge		S. Venkateswara Rao	S. Venkata Rao
Signature of Head of the Institution			

VIJAYA INSTITUTE OF PHARMACEUTICAL SCIENCES FOR WOMEN

ENIKEPADU, VIJAYAWADA - 521108.

I B. PHARM/ I SEM (PCI) MID EXAM

ATTENDANCE DAIRY

Sub: Pharmaceutical Inorganic Chemistry (BP104T)

S. No	Hall-Ticket No	STUDENT SIGNATURE	
		I MID	II MID
49	237N1R0049	K. Mahija.	K. Mahija.
50	237N1R0050	K. Manasa	K. Manasa
51	237N1R0051	K. Divya Sri	K. Divya Sri
52	237N1R0052	K. Bhuvana.	K. Bhuvana
53	237N1R0053	L. Honey Rose	L. Honey Rose
54	237N1R0054	M. Meenaksh Devi	M. Meenakshi Devi
55	237N1R0055	M. Manvitha	M. Manvitha
56	237N1R0056	B. Mary Cristina..	B. Cibi
57	237N1R0057	M. Tini Vinaytha.	M. Tini Vinaytha.
58	237N1R0058	M. Geya Sri	M. Geya Sri
59	237N1R0059	M. Thabitha	M. Thabitha
60	237N1R0060	M. Akhila	M. Akhila.
61	237N1R0061	M. Leelavathi	M. Leelavathi
62	237N1R0062	Md. Asma..	Md. Asma..
63	237N1R0063	Md. Tasleema.	Md. Tasleema.
64	237N1R0064	M. Daiva Krupa.	M. Daiva Krupa.
65	237N1R0065	M. Akshaya.	M. Akshaya.
66	237N1R0066	N. Bindu	N. Bindu
67	237N1R0067	N. lakshmi harika	N. lakshmi harika
68	237N1R0068	N. Thambi Rani	N. Thambi Rani
69	237N1R0069	N. Nagyasri	N. Nagyasri
70	237N1R0070	N. Durgabhavani	N. Durgabhavani
71	237N1R0071	P. usha latha	P. usha latha
72	237N1R0072	P. Harshini	P. Harshini
Total Number of Students		24	24
Signature of Invigilator			
Exams Incharge		S. Venkata	S. Venkata
Signature of Head of the Institution			

VIJAYA INSTITUTE OF PHARMACEUTICAL SCIENCES FOR WOMEN

ENIKEPADU, VIJAYAWADA - 521108.

I B. PHARM/ I SEM (PCI) MID EXAM

ATTENDANCE DAIRY

Sub: Pharmaceutical Inorganic Chemistry (BP104T)

S. No	Hall-Ticket No	STUDENT SIGNATURE	
		I MID	II MID
73	237N1R0073	P. Namada.	P. Namada
74	237N1R0074	P.N.L. Sirisha.	P. N.L.Sirisha.
75	237N1R0075	P.Nikhitha	P.Nikhitha
76	237N1R0076	P.V.L.Poojitha	P.V.L.Poojitha
77	237N1R0077	P.Akhila	P.Akhila
78	237N1R0078	p.venkata sreeniya	p.V.sreeniya
79	237N1R0079	P.Sai	P.Sai
80	237N1R0080	P.Devipriya.	P.Devipriya.
81	237N1R0081	P.Bala Santoshi	P.Bala Santoshi
82	237N1R0082	R.Pujitha.	R.Pujitha.
83	237N1R0083	R.Devamani	R.Devamani
84	237N1R0084	R.Divya Sree	R.Divya Sree
85	237N1R0085	S.priyanka.	S.priyanka.
86	237N1R0086	Sk.Afreen.	Sk.Afreen.
87	237N1R0087	SK.Asma	Asma.
88	237N1R0088	SK.Farzana	SK.Farzana
89	237N1R0089	Sk.Meharen.	Sk.Meharen.
90	237N1R0090	Sk.Nasreen.	Sk.Nasreen.
91	237N1R0091	SK.Saniya	SK.Saniya.
92	237N1R0092	SK.Suhana	SK.Suhana.
93	237N1R0093	S.Haritha	S.Haritha
94	237N1R0094	Sd.Rameejun	Sd.Rameejun
95	237N1R0095	Sd.Rizwana	ABSENT
96	237N1R0096	T.Sravanthi.	T.Sravanthi.
Total Number of Students		24	23
Signature of Invigilator			
Exams Incharge		S. Venkata	C. Venkata
Signature of Head of the Institution			

VIJAYA INSTITUTE OF PHARMACEUTICAL SCIENCES FOR WOMEN

ENIKEPADU, VIJAYAWADA - 521108.

I B. PHARM/ I SEM (PCI) MID EXAM

ATTENDANCE DAIRY

Sub: Pharmaceutical Inorganic Chemistry (BP104T)

S. No	Hall-Ticket No	STUDENT SIGNATURE	
		I MID	II MID
97	237N1R0097	T. Sai Supriya	T. Sai Supriya
98	237N1R0098	T. Rajeswari	T. Rajeswari
99	237N1R0099	T. Tya Sri	T. Tya Sri
100	237N1R00A0	T. Baby Sadasini	T. Baby Sadasini
101	237N1R00A1	T. Mythili	T. Mythili
102	237N1R00A2	U. Swathi Jahnavi	U. Swathi Jahnavi
103	237N1R00A3	V. Lakshmi Sri	V. Lakshmi Sri
104	237N1R00A4	V. V. Mahalakshmi.	V. V. Mahalakshmi
105	237N1R00A5	V. Mounika.	V. Mounika
106	237N1R00A6	Jahnavi.	Jahnavi.
107	237N1R00A7	V. Pujitha.	V. Pujitha.
108	237N1R00A8	V. Prasanna Kumari.	V. Prasanna Kumari
109	237N1R00A9	Y. Sandhya	Y. Sandhya
110	237N1R00B0	Y. Adarshitha.	Y. Adarshitha
Total Number of Students		14	14
Signature of Invigilator			
Exams Incharge		S. Venkata	S. Venkata
Signature of Head of the Institution			

Model of Evaluated Mid Exam

Answer Script

VIJAYA INSTITUTE OF PHARMACEUTICAL SCIENCES FOR WOMEN,
ENIKEPADU, VIJAYAWADA – 521108.
I B Pharmacy II Sem I Mid Exams June 2024 SET-2

237N1R0009.

Duration: 10 mins **SUB: Pharmaceutical Organic Chemistry– I (BP202T)** **Marks: 10M**

1. Organic compounds are broadly classified as _____ (c)
   a) Open chain compounds and acyclic compounds
   b) Open chain compounds and linear chain compounds
   c) Cyclic compounds and alicyclic compounds
   d) alicyclic compounds and acyclic compounds

9/10

2. Which among the following is not an example of Acyclic compound? (c)
   a) Acetaldehyde b) Ethane c) Cyclopropane d) Isobutane

3. The substituent in the chain is named by replacing the "ane" in the alkanes by (d)
   a) ene b) ic c) one d) yl

4. Dienes are the name given to compounds with _____ (c)
   a) Exactly a double bond b) Exactly a triple bond
   c) Exactly two double bond d) More than two double bond

5. Which among the following dienes undergo addition with the help of radical-chain mechanism? (d)
   a) Cumulated dienes b) Isolated dienes c) Simple dienes d) Conjugated dienes

6. Alkanes undergo halogenation. It is an example of (c)
   a) nucleophilic substitution b) elimination c) free-radical substitution d) electrophilic substitution

7. Find the alkene with maximum stability (b)
   a) cis-2-Butene b) trans-2-Butene c) 1-Butene d) All have the same stability

8. Which alkyl halide has the highest reactivity for a particular alkyl group? (c)
   a) R-F b) R-Cl c) R-I d) R-Br

9. Which of the following halide can give best S_N2 reaction? (a)
   a) Primary alkyl halide b) Tertiary alkyl halide
   c) Secondary alkyl halide d) All can give S_N2 reaction at same rate

10. Methyl chloride reacts with silver acetate to yield (b)
    a) Acetic acid b) Methyl acetate c) Acetyl chloride d) None of the above

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VIJAYA INSTITUTE OF PHARMACEUTICAL SCIENCES FOR WOMEN

ENIKEPADU, VIJAYAWADA

SRK FOUNDATION

VIJAYAWADA

2024 - 2025

SESSIONAL BOOK

Name : B. prasannalakshmi

Class : B. pharmacy IYear / 2 sem

Roll No. : 23MNIR0009

Subject : pharmaceutical Organic chemistry.

Internal	Objective	Subjective	Assignment	Total	Staff Sign	Student Sign
I	09	20		29		B. prasanna lakshmi
II	10	20		30		B. prasanna lakshmi

Final Average : 30

Staff Sign

HOD Sign

PHARMACEUTICAL ORGANIC CHEMISTRY.

MID - I

20/20

a) Isomerism :-

Compounds having a same molecular formula but different in physical and chemical properties is known as Isomers.

And the phenomenon is called as ISOMERISM.

→ Isomerism is classified into two types

1. Structural isomerism
2. Stereo isomerism.

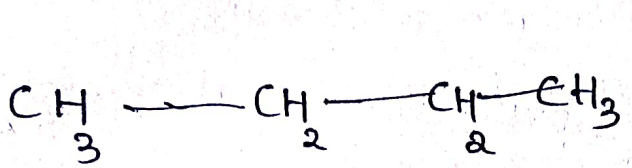
Stereo isomerism :- Compounds having same molecular formula but difference in the spacial arrangement is known as stereo isomerism.

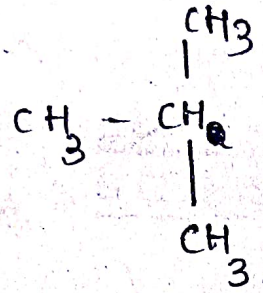
Structural isomerism :- Compounds ~~that~~ which are having same molecular formula but difference in the structural arrangement is known as structural isomerism.

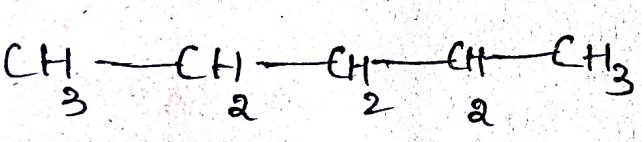
It is divided into Five types :-

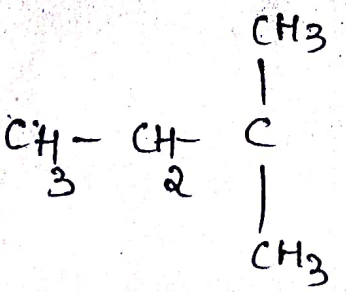
1) chain Isomerism.
2) positional Isomerism.
3) Functional Isomerism.
4) Metamerism.
5) Tautomerism.

chain isomerism :- Compounds which are having same molecular formula but difference in the nature of carbon chain is known as chain isomerism.

Eg :- 1  n-butane.

 iso butane.

Eg :- 2.  n-pentane

 iso-pentane.

Both 1st and 2nd examples are having same molecular formula but difference in the arrangement of carbon chain.

positional isomerism :-

Compounds which are having the same molecular formula but difference in the position of functional group is known as positional isomerism.

⇒ Double and Triple bonds are also considered as Functional group.

Ex:- $CH_3 - CH_2 - CH_2 - OH$ — n- propanol.

$CH_3 - \underset{OH}{CH} - CH_3$ — Iso - propanol or 2- propanol.

3) Functional isomerism :-

Compounds which are having same molecular formula but difference in the Functional group is known as Isomerism Functional isomerism.

Ex :- $CH_3 - \overset{O}{\overset{\|}{C}} - CH_3$ — Acetone or propanone

$CH_3 - CH_2 - \overset{O}{\overset{\|}{C}} - H$ — propanaldehyde or propanal

4) Metamerism :- the Type of isomerism is caused due to the unequal distribution of carbon atoms on either the side of Functional group.

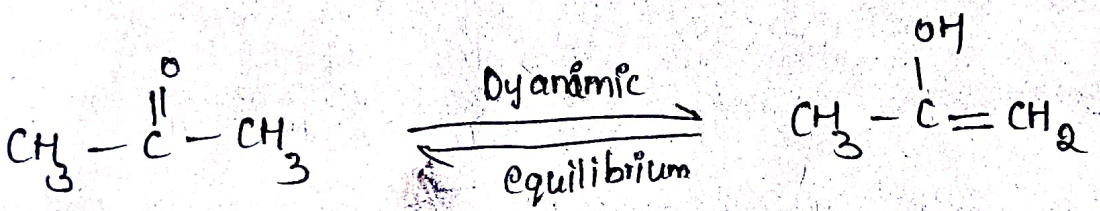
the Members belong to the Homologous series.

Ex :- $CH_3 - CH_2 - O - CH_2 - CH_3$ ⇒ diethyl ether

$CH_3 - O - CH_2 - CH_2 - CH_3$ ⇒ Methyl propyl ether.

Tautamerism :-

It is a special type of isomerism and it takes place at the Dyanamic equilibrium.

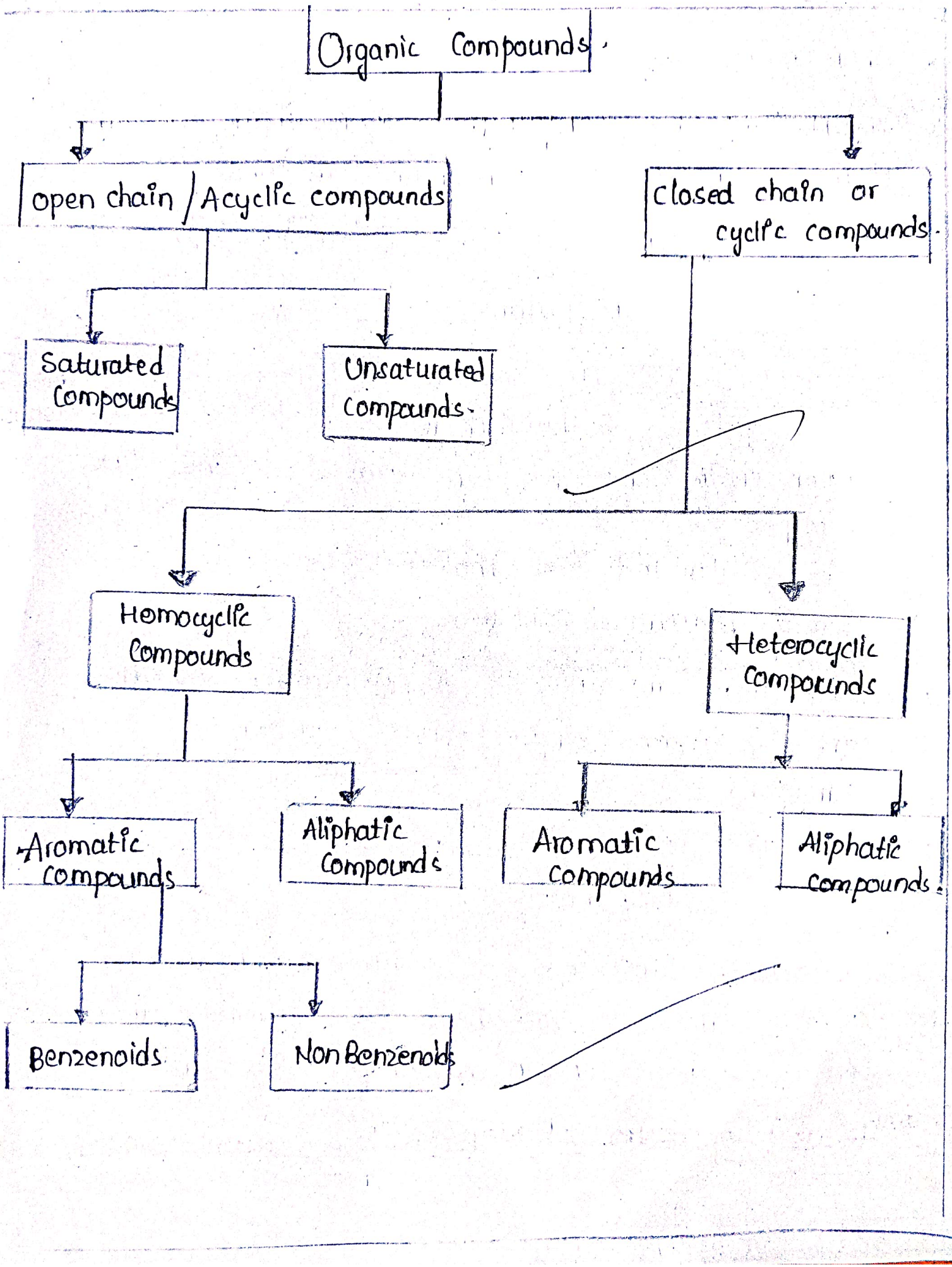


Acetone or propanone.

1-propene-2-ol

. classification of organic Compounds :-

⇒


Organic Compounds
open chain / Acyclic compounds
closed chain or cyclic compounds
Saturated Compounds
Unsaturated Compounds
Homocyclic Compounds
Heterocyclic Compounds
Aromatic compounds
Aliphatic Compounds
Aromatic compounds
Aliphatic compounds
Benzenoids
Non Benzenoids

open chain compounds :-

Organic compounds containing open chain of carbon atoms (either branched or unbranched) is known as open chain compounds.

Ex :- $CH_3 - CH_2 - CH_2 - CH_3$

n-butane.

Ex :- $CH_3 - CH_2 - CH_2 - CH_3 - Cl$

n-butyl chloride.

open chain compounds are classified into two types

1) Saturated compounds
2) Unsaturated compounds.

Saturated compounds :- A hydrocarbon having carbon-carbon single bond is known as saturated compound

Ex :- $CH_3 - CH_2 - CH_3$

propane.

Unsaturated compounds :- A hydrocarbon having carbon-carbon double bond or carbon-carbon triple bond is known as unsaturated compounds.

Ex :- $CH_2 = CH_2$ ethylene.

$CH \equiv CH$ Acetylene.

* closed chain Organic Compounds :-

Organic Compounds which contain a benzene ring is called closed chain compounds.

Ex : Benzene 

Closed chain Compounds are divided into two types:-

1. Homocyclic compounds.
2. Heterocyclic Compounds.

Homocyclic Compounds :-

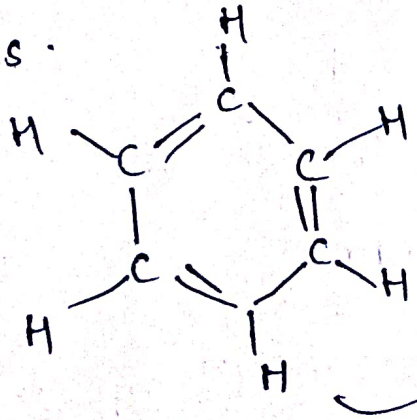
The Organic Compound which entirely composed of carbon atoms in their structure is known as Homocyclic Compounds

these are further sub divided into :-

1. Aromatic Compounds
2. Aliphatic Compounds.

→ Aromatic Compounds :-

these are carbocyclic Compound in which double and single bonds are arranged alternatively between carbon atoms.

eg :- 

Benzene.

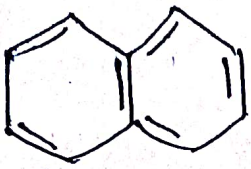
Aromatic compounds are classified into two types

1) Benzenoids.
2) Non-Benzenoids.

Benzenoids :-

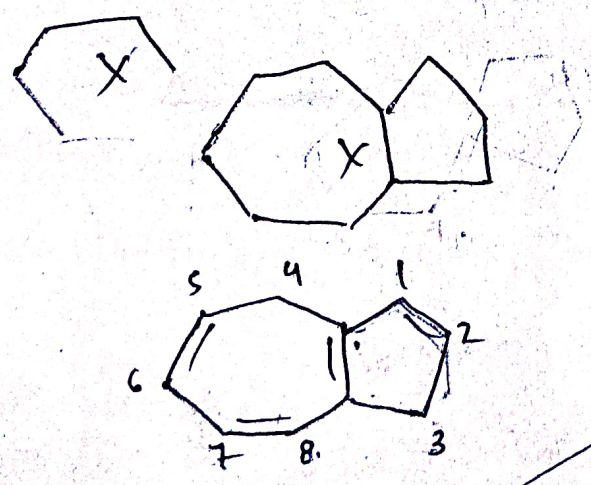
A Compound which contain Benzene ring in their structure is called Benzenoids.

eg :-  Benzene

eg :-  Naphthalene.

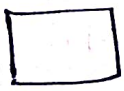
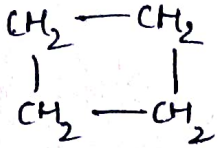
Non Benzenoids :-

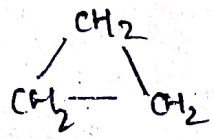
A Compound which does not contain any Benzene ring in their structure is called non benzenoids.

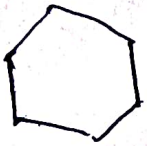
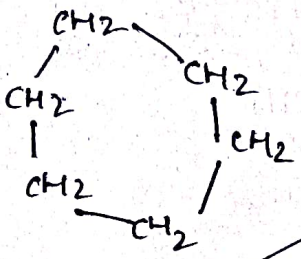
eg :- 

Azulene

Aliphatic compounds :- Compounds which contain ring in its structure but it behaves as a Aliphatic compounds

Ex :-  or  cyclobutane.

 or  cyclopropane

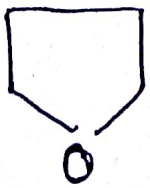
 or  cyclohexane.

Heterocyclic Compounds :-

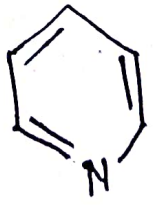
In Oragan compounds cartom atom is replaced by other atoms like, N, O, P etc is known as Hetero cyclic Compounds. The Non-carbon atoms are called Heteroatoms.

It is clivided into two types

1) Aromatic - contains saturated bonds
2) Aliphatic - contains Unsaturated bonds.

Eg :- 

Tetra Hydro Furan.
(Aromatic)

Eg :- 

Pyrimidine.
(Aliphatic).

Hybridisation :-

The intermixing of orbitals of same equal energie to form a hybrid orbital is called hybridisation :-

sp^3 Hybridisation :-

The intermixing of one s-orbital and three p-orbital to form a four identical sp^3 hybrid orbitals is know as sp^3 hybridisation.

→ ~~The centre atom surround~~

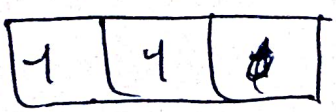
→ It is tetrahedral in shape surrounds around the ~~centr~~ nucleus of the central atom.

Eg :- Methane (Alkane). - CH_4

→ In Methane carbon is the central atom.

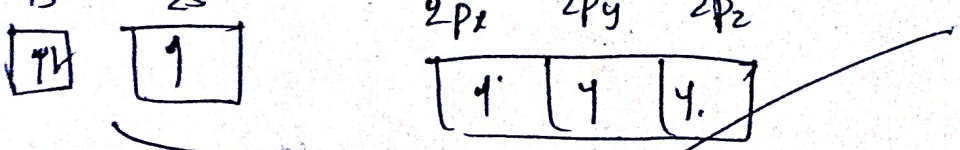
Ground state electronic configuration :-

C_6 = $1s^2$ $2s^2$ $2p_x^1$ $2p_y^1$ $2p_z^0$



Excited state electronic configurati

C_6 = $1s^2$ $2s^1$ $2p_x^1$ $2p_y^1$ $2p_z^1$



sp^3

→ the central atom undergoes sp^3 hybridisation.

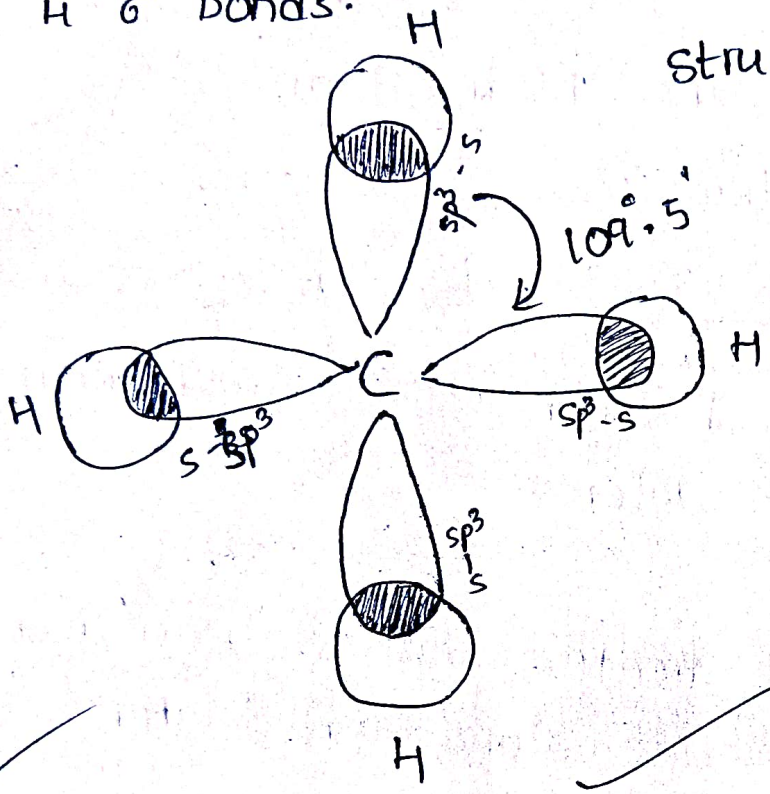
form 4 identical sp ~~or~~ hybrid orbitals.

→ Each orbital contain one unpaired electrons.

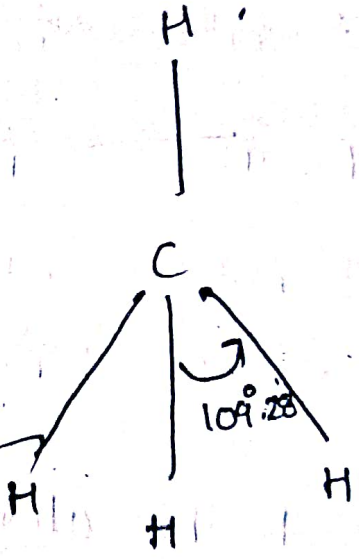
→ p-orbital overlaped with s-orbital to form.

4 σ bonds.

Structure of Methane :-



or



→ Shape of Methane - Tetrahedral

→ Bond angle of Methane - 109°.28' or 109°.5'

→ In sp^3 Hybridisation :-

s character is 25%.

p character is 75%.

General preparation Methods for Alkyl halides :-

- From Alcohols :-

Alkyl halides are nearly heavily prepared from alcohols. In Alcohols the hydroxyl group is replaced with x-atom.

$$R\text{-}OH + HX \longrightarrow R\text{-}X + H_2O$$

Alcohols reacts with halogen acids yield alkyl halides along with water.

Ex :- Methyl alcohol is treated with Hydrogen chloride it yields Methyl chloride along with water

$$CH_3\text{-}OH + HCl \longrightarrow CH_3\text{-}Cl + H_2O$$

Methanol — Hydrogen chloride — Methylchloride — Water

Ex :- ethanol on reacting with Hydrogen Bromide it yields ethyl bromide with the elimination of water

$$CH_3\text{-}CH_2\text{-}OH + HBr \longrightarrow CH_3\text{-}CH_2\text{-}Br + H_2O$$

ethanol — Hydrogen bromide — ethyl bromide — Water

2. By the addition of halogen acids :-

Alkenes on reaction with halogen acids it yields. Alkylhalide by following the Markonicoff rule.

→ It does not follows Morkonicoff rule in the presence of Hydrogen halide HBr or when alkene react with HBr in the presence of peroxide effect.

$$R-CH=CH_2 + HX \xrightarrow{\text{Marchonicoff rule}} R-\underset{\underset{X}{|}}{CH}-CH_3$$

alkene. — Alkyl halide

$$R-CH=CH_2 + HX \xrightarrow[\text{effect}]{\text{peroxide}} R-CH_2-\underset{\underset{X}{|}}{CH_2}$$

Alkyl halide.

propene reacts with HCl to give propyl chloride.

eg :

$$CH_3-CH=CH_2 + HCl \longrightarrow CH_3-\underset{\underset{Cl}{|}}{CH}-CH_3$$

propene — hydrogen chloride — 2-chloro propane or propyl chloride

eg : When ethylene reacts with HBr to give ethyl bromide.

$$CH_2=CH_2 + HBr \xrightarrow{\text{perox}} CH_3-CH_2-Br$$

ethylene — Hydrogen bromide. — ethyl bromide

By direct halogenation :-

When methane is directly treated with Cl_2 or Br_2 in the presence of uv or at high temperature it yields Alkyl halides and Halogen derivatives

$$CH_4 + Cl_2 \xrightarrow[\text{high temperature}]{UV} \underset{\text{Methyl chloride}}{CH_3-Cl} + \underset{\text{Methylidene chloride}}{CH_2Cl_2} + \underset{\text{chloro form}}{CHCl_3} + \underset{\text{carbon tetra chloride}}{CCl_4}$$

Methane

Methylidene

This process is not used in labaratory due to difficulty in seperation of products.

Reaction With phosphorus pentahalide or phosphorus Trihalides

$$R-OH + PX_5 \longrightarrow R-X + POX_3 + HCl$$

Reaction of alcohols with phosphorus penta halide yields Alkyl halide.

e.g :- Methanol on treated With phosphorus penta chloride it yields Methyl chloride.

$$\underset{\text{Methyl alcohol}}{CH_3-OH} + \underset{\text{phosphorus penta chloride}}{PCl_5} \longrightarrow \underset{\text{Methyl chloride}}{CH_3-Cl} + \underset{\text{phosphorus Tri chloride}}{POCl_3} + HCl.$$

Stability of Conjugated dienes :-

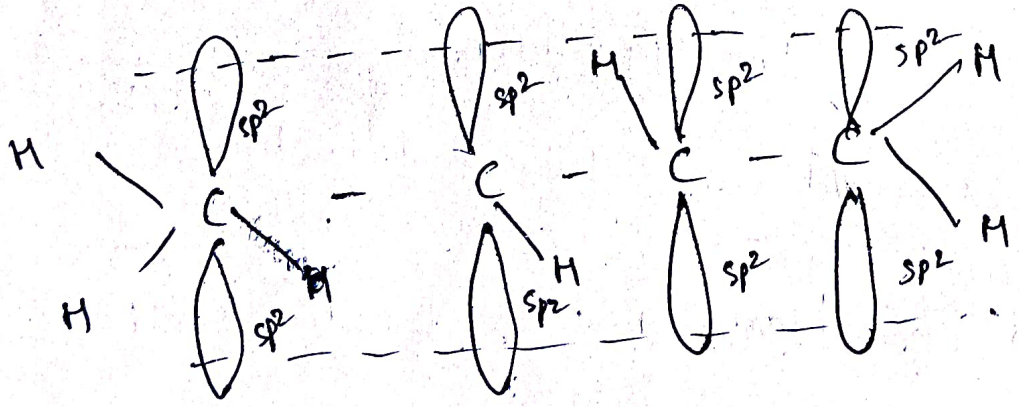
In conjugated dienes carbon - carbon double bonds are seperated by single bond.

Eg :- 1,3 Butadiene.

→ In 1,3 Butadiene all carbons are sp^2 hybridized.

→ 1,3 Butadiene contain unhybridized p orbital and it is perpendicular to σ bonds. ~~teds~~ ledds to the formation of π orbital.

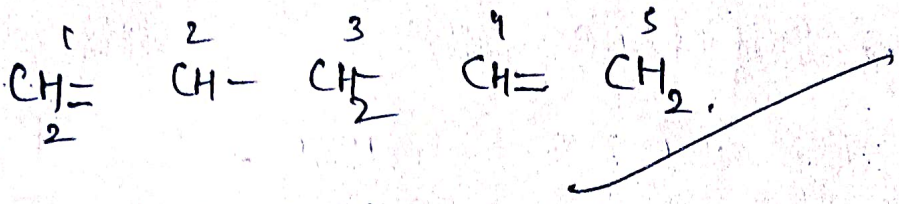
→ these π orbital spread larger area called delocalization.



→ Conjugated dienes are more stable than the isolated and cumulated dienes due to the ~~pres~~ due to isolated and cumulated dienes lack delocalization.

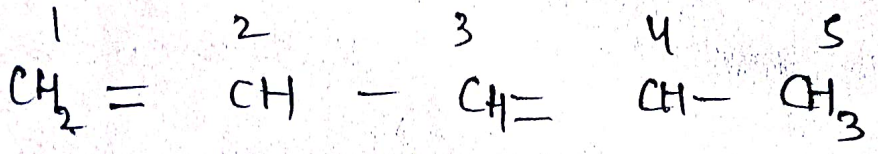
Heat of Hydrogenation is the experimental evidence of stability of conjugated dienes.

Eg :



1, 4 - pentadiene

ΔH = 60.3 kcal / mole.



1,3 - pentadiene

ΔH = 54.1 kcal / mole.

Heat of hydrogenation is inversly propotional to the stability

$$\Delta H \propto \frac{1}{\text{stability}}.$$

ΔH ↑ ⟶ stability ↓,

ΔH ↓, ⟶ stability ↑

1,4 pentadiene is less stable when compared to 1,3 pentadiene due to the high heat of hydrogenation

20/20

a) Basicity of amines :-

Amines are basic in nature because they posses an unshared pair of electron. for the formation of new bond with Nitrogen. Amines react with acids to form salts.

$$R-NH_2 + HCl \longrightarrow RNH_3Cl$$

alkyl amine — Hydro chloric acid — Alkyl ammonium chloride.

Basicity constant :- (k_b)

~~Amin strong bases like HCl and H_2SO~~

Strong bases like KOH and NaOH these are Completely ionized in aqueous solution. But amines are Weaker bases, these are only partially ionized in aqueous solution. and an equilibrium exists between the ionized and unionized forms.

$$R-NH_2 + H_2O \rightleftharpoons R-NH_3^{\oplus} + OH^{\ominus}$$

unionized form. — ionized forms

→ the extent of equilibrium is discribed by a

constan k_b , which is known as basicity constant

$$Pk_b = \frac{(R\text{-}NH_3^+)(OH^-)}{(R\text{-}NH_2)}$$

Basicity Constant is defined as the Concentration of products of ionization in moles / litre divided by concentration of unionized base.

- The value of Pk_b is equal to the Negative log of k_b

$$Pk_b = -\log k_b$$

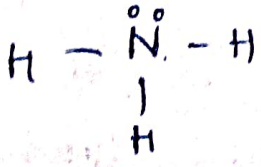
- Basicity Constant describes the relative strength of weaker base

⇒ Stronger the base, greater the pka value and weaker the base, losser the value of Pka.

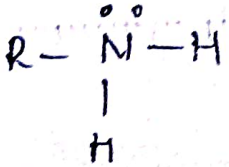
Relative Strength of bases :-

Aliphatic amines are stronger bases than ammonia, because the alkyl group are electron releasing

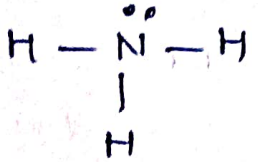
It increases the election density around the nitrogen, there by availibility of lone pairs increases and. Stronger the base.



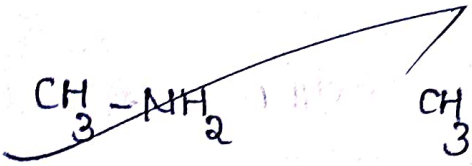
Ammonia



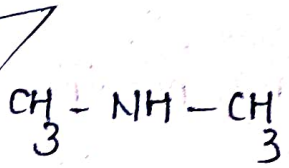
1° amines.



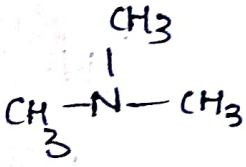
Ammonia.



Methylamine



dimethylamine



Trimethyl amine

pka = 4.78 pka = 3.36 pka = 3.27 pka = 2.18.

Trimethyl amine is less basic than the Methyl amine and dimethyl amine due the stearic Hindarance is more since lower the availibility of ~~loee~~ lonepairs.

Basicity Order of amines :-

$$R_2NH > R\text{-}NH_2 > R_3N$$

2° 1° 3°

Effect of substituents on basicity of amines :-

they are two substituents effecting basicity of amines

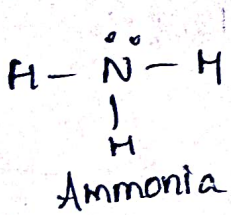
1) Electron releasing group

2) Electron Withdrawing group

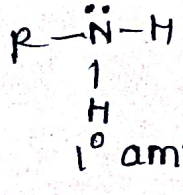
Electron releasing groups :-

Electron releasing groups increases the basicity of amines

It increases the electron density around the Nitrogen, there by increasing the availabily of lone pair ⇒ and stronger the base



Ammonia



1° amines.

Electron Withdrawal groups :-

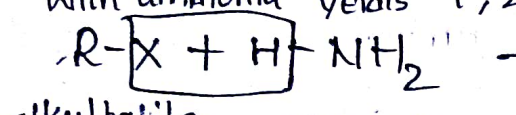
Electron Withdrawal groups decreases the stability of amines

⇒ It decreases the electron density around the Nitrogen, there by decreasing availibility of lone pair and Weaker the base.

b) preparation methods of Amines.

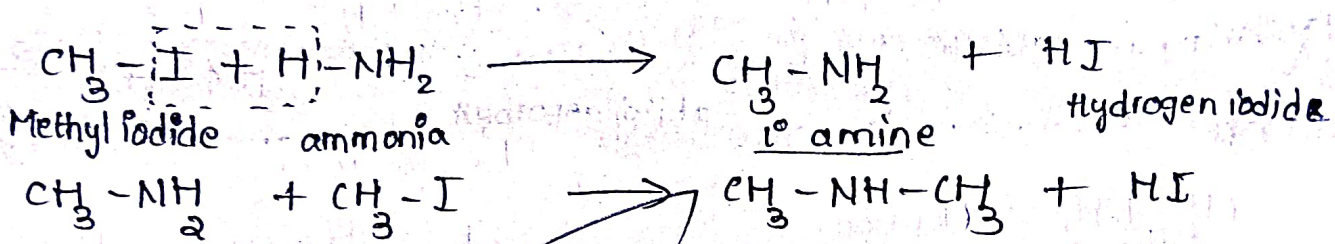
Mixture of amines are prepared by following preparations -

i) Reaction of Alkylhalides With Ammonia :- Reaction of alkyl halides with ammonia yeilds 1°, 2°, 3° amines and quaitnary compounds.



$$R\text{-}X + H\text{-}NH_2 \longrightarrow R\text{-}NH_2 + HX$$

alkylhalide ammonia. 1° amine. halogen acid



$$CH_3\text{-}I + H\text{-}NH_2 \longrightarrow CH_3\text{-}NH_2 + HI$$

Methyl iodide ammonia 1° amine hydrogen iodide

$$CH_3\text{-}NH_2 + CH_3\text{-}I \longrightarrow CH_3\text{-}NH\text{-}CH_3 + HI$$

2° amine

$$CH_3\text{-}NH\text{-}CH_3 + CH_3\text{-}I \longrightarrow CH_3\text{-}N(CH_3)\text{-}CH_3 + HI$$

3° amine

$$CH_3\text{-}N(CH_3)\text{-}CH_3 + CH_3\text{-}I \longrightarrow CH_3\text{-}N^{+}(CH_3)_2\text{-}CH_3 \cdot Cl^{-}$$

Quartarnary Compound.

Methyl amine is the major product, which further reacts With excess of Alkyl halide yeids 2°, 3°, 4° Compounds.

ii) Reaction of Alcohols With ammonia :- or Ammonalysis of Alcohols.

Alcohols upon reaction with Ammonia yields mixture of amines

$$R\text{-}OH + H\text{-}NH_2 \longrightarrow R\text{-}NH_2 + H_2O$$

alcohol ammonia 1° amine

$$CH_3\text{-}OH + H\text{-}NH_2 \longrightarrow CH_3\text{-}NH_2 + H_2O$$

1° amine (Methyl amine).

$$CH_3\text{-}NH_2 + CH_3\text{-}OH \longrightarrow CH_3\text{-}NH\text{-}CH_3 + H_2O$$

2° amine. (Dimethyl amine)

$$CH_3\text{-}NH\text{-}CH_3 + OH\text{-}CH_3 \longrightarrow CH_3\text{-}N(CH_3)\text{-}CH_3 + H_2O$$

3° amines. (Trimethylamine)

It is not used in industry due to spero separation of these mixture of amines is very difficult.

Re preparation methods for 1° amine :-

i, ~~Reaction~~ Reduction of Nitro alkanes :- Nitromethane upon reduction with H_2 yields Methy amine

$CH_3-NO_2 + 3H_2 \longrightarrow CH_3-NH_2 + 2H_2O$.

Nitromethane — Methyl amine (1° amine).

, Reduction of Nitriles :- Nitriles upon reduction yields primary amines.

$R-C\equiv N + 4(H^+) \longrightarrow R-CH_2-NH_2$

Nitriles — 1° amine.

$CH_3-C\equiv N + 4(H^+) \longrightarrow CH_3-CH_2-NH_2$

Methyl Nitrile — ethyl amine (1° amine)

ii) Reduction of Amides :- Amides upon reduction yields 1° amine.

$R-\overset{O}{\overset{\|}{C}}-NH_2 + 4(H)^+ \longrightarrow R-CH_2-NH_2 + H_2O$.

amide — 1° amine — Water

$CH_3-\overset{O}{\overset{\|}{C}}-NH_2 + 4(H^+) \longrightarrow CH_3-CH_2-NH_2 + H_2O$

acetamide. — ~~Ethyl~~ amine (1° amine).

iv) Hoffman's bromide reaction :-

This method is used to prepare pure amines in industry, By reacting ~~1° amine~~ amide with Br_2 and NaOH.

$CH_3-CO-NH_2 + Br_2 + 4NaOH \longrightarrow CH_3-NH_2 + 2NaBr +$ sodium bromide $+ Na_2CO_3 + 2H_2O$

acetamide — Bromine — sodium hydroxide — methylamine — sodium bicarbonate.

Preparation of 2° amines :-

i) Reduction Reaction of 1° amines with alkyl halides.

1° amines reacts with alkyl halide yields 2° amines

$R-NH_2 + R-X \longrightarrow R-NH-R + HX$

1° amine — alkyl halide — 2° amines

$CH_3-NH_2 + CH_3-I \longrightarrow CH_3-NH-CH_3 + HI$

Methyl amine — Methyl iodide — dimethyl amine (2° amines.)

ii) Reduction of iso nitriles.

isonitriles upon reduction ~~with~~ yield 2° amines

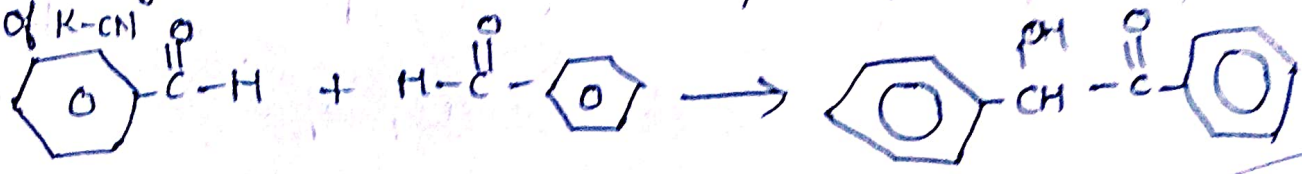
$R-N\equiv C + 4(H^+) \longrightarrow R-NH-CH_3$

iso nitriles — 2° amines

$CH_3-N\equiv C + 4(H^+) \longrightarrow CH_3-NH-CH_3$

Methyl iso nitrile. — dimethyl amine.

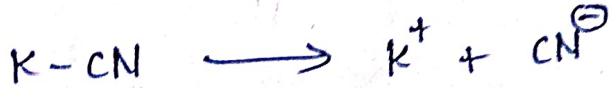
Benzoin Condensation :- Aldehydes which lack α-hydrogen. undergo Benzoin condensation yield Benzoin in the presence of K-CN



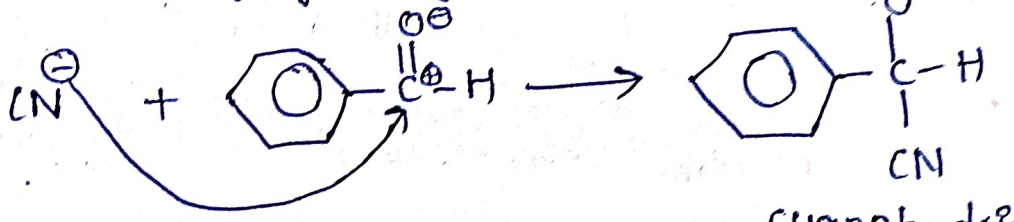
Benzaldehyde Benzaldehyde Benzoin.

Mechanism :-

i) Heterolysis of potassium cyanide

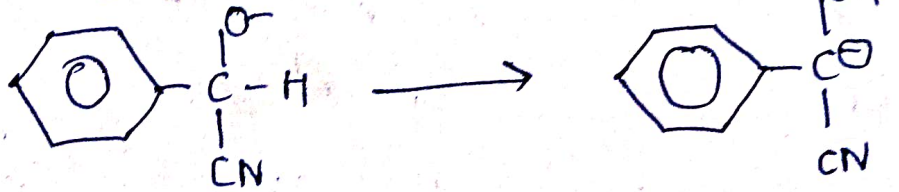


ii) Formation of cyanohydrin

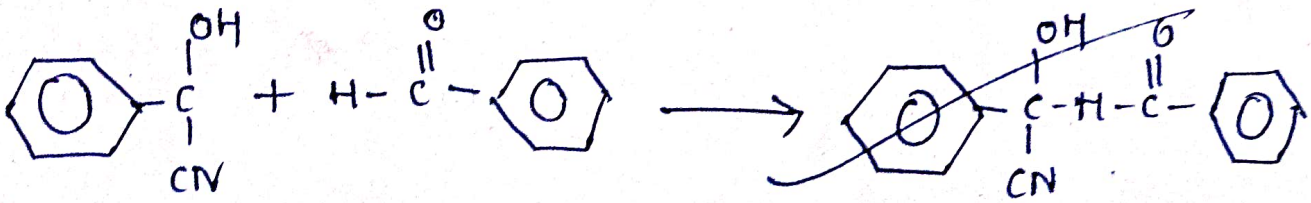


cyanohydrin.

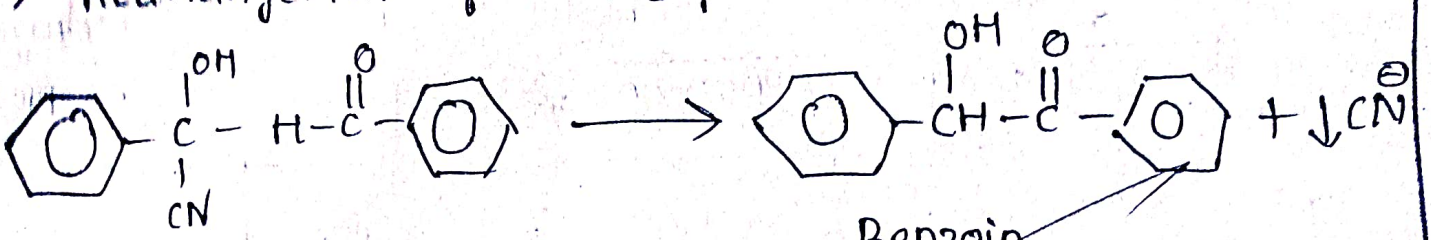
iii) Arrangement of proton.



iv)



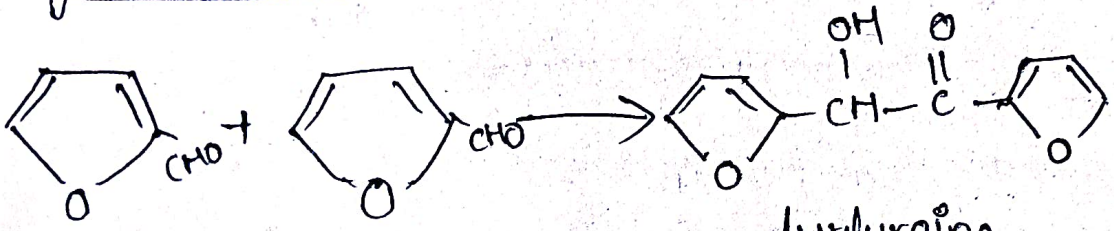
v) Rearrangement of e^- and protons.



Benzoin

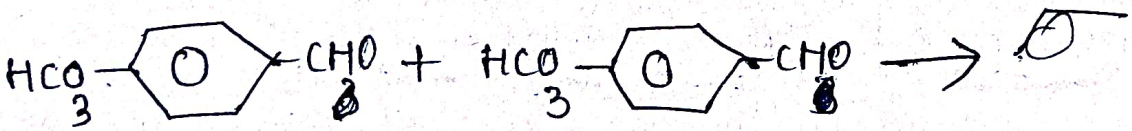
Applications of Benzoin Condensation :-

1) Synthesis of furfurione

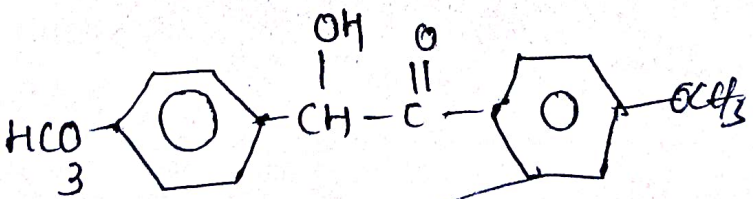


furfuroine

2) Synthesis of anisoine



anisaldehyde



anisoine

Qualitative tests for carbonyl compound.

Aldehydes.

Experiment	observation	Inference.
Fehling's test :- To the small amound of Sample add Fehling's A and Fehling's B. Reagents	Cupious Red ppt is observed	Indicates the presence of aldehyde.
$2(CuOH)_2 \longrightarrow Cu_2O + CO_2 + H_2O$ (Red ppt)		
Benedict's Test :- To the small amount of sample add Benedict's Reagend. Warm the mixture for 2-minutes. $2(CuOH)_2 \longrightarrow Cu_2O + CO_2 + H_2O$ (Red ppt)	cupious red ppt is observed	Indicates the presence of aldehyde.
Tollen's Test :- To the small amount of sample add Tollen's reagent, Heat it on Water bath	Silver mirror is obtained on walls of the test tube	Indicates the presence of aldehydes.
Schiff's Test :- To the small amount of sample add schiff's reagent.	purple or pink colour is immediately develop	Indicates the presence of aliphatic aldehyde
	purple or pink colour develop on standing	Indicates the presence of aromatic aldehydes.

ketones

Experiment	observation	inferene.
odium nitroprusside test :- o the sample add o'/. of sodium nitro russid in a test tube	Appearence of purple or violet colour	Indicates the presence of Methyl ketones.
mmerman's test :- o the small amount l sample add m-dinitro enzene powder and NaOH	pint turns to red immediatly or standing	Indicates the presence of ketones.
odoform test :- To sample To the small amount of sample add solvant and I_2 - KI reagent	Yellow ppt is formed	Indicates the presence of ketones.

Ethyl alcohol :- or ethanol.

a) CH_3-CH_2-OH → structure.

Uses

> ethyl alcohol is used in the preparation of Drugs and plastisizers

> ethyl alcohol is a indrustial solvent and used for the preparation of acetic acid and acetyl chloride.

. Used in the synthesis of Rubber

, It is used to store biological specimens.

b) Benzyl alcohol

Uses :-

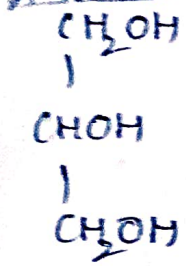
> Benzyl alcohol is used to releive iching

→ Bezyl alcohol form esters used in Benzyl acetate purfume having jasmine fragrance.

→ Benzyl alcohol used in the preparation of Benzyl Benzoate to treat asthma and Whooping couch.

c) Glycerol

Structure :



Uses :

→ It is used in soaps, handlotions, Diary products

→ also used in Manufacturing of plasticizers and Resins

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

Pharmaceutical Analysis-I (BP102T)

S.NO	Name of the Student	Register No	I MID			II MID			practical		Remarks
			CM	SM	Total	CM	SM	Total	IMid	IIMid	
1	K. Siri	237NIR0001	10	10	20	10	5	15	13	13	
2	A. Lakshmi Jana	237NIR0002	10	9	19	10	0	10	12	12	
3	A. Leela Rani	237NIR0003	10	11	21	10	10	20	14	13	
4	A. Pavitha	237NIR0004	10	10	20	10	11	21	13	13	
5	A. InduPriya	237NIR0005	10	10	20	10	10	20	14	13	
6	A. Rishitha	237NIR0006	10	14	24	10	11	21	13	14	
7	A. Keerthana	237NIR0007	10	13	23	10	11	21	14	14	
8	A. Ganga Sri	237NIR0008	10	13	23	10	11	21	14	14	
9	B. Prasanna Lakshmi	237NIR0009	10	14	24	10	13	23	14	14	
10	B. Divya	237NIR0010	10	12	22	10	9	19	14	13	
11	B. Pujitha Sri	237NIR0011	10	10	20	10	13	23	13	12	
12	B. Harsha Vardhini	237NIR0012	10	10	20	10	6	16	5	12	
13	B. Akhila	237NIR0013	10	11	21	10	11	21	13	13	
14	Ch. Sruthi	237NIR0014	10	5	15	10	7	17	11	11	
15	Ch. Gayathri	237NIR0015	10	6	16	10	8	18	12	12	
16	D. Gayathri	237NIR0016	10	7	17	10	10	20	14	12	
17	D. Hemalatha	237NIR0017	10	7	17	10	10	20	13	13	
18	D. Kavya	237NIR0018	10	11	21	10	9	19	12	14	
19	D. Naga Malleswari	237NIR0019	10	10	20	10	10	20	11	13	
20	D. Supriya	237NIR0020	10	9	19	10	6	16	12	12	

S.NO	Name of the Student	Register NO	I MID			II MID			Practical		Remarks
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21	D. Siva Rani	237N1R0021	10	13	23	10	10	20	12	13	
22	D. Bhavana	237N1R0022	10	14	24	10	11	21	14	13	
23	D. Suvitha	237N1R0023	10	13	23	10	12	22	14	13	
24	D. Tejaswini	237N1R0024	10	11	21	10	12	22	14	13	
25	D. Sushma Priya	237N1R0025	10	13	23	10	12	22	13	13	
26	D. Venkata Dhana Lakshmi	237N1R0026	10	12	22	10	14	24	14	14	
27	G. Jyothika	237N1R0027	10	12	22	10	10	20	13	13	
28	G. Akshaya	237N1R0028	10	10	20	10	10	20	12	12	
29	G. Nandini	237N1R0029	10	6	16	10	9	19	13	13	
30	G. Lakshmi Vasavi	237N1R0030	10	9	19	10	11	21	12	13	
31	G. Shainy	237N1R0031	10	6	16	10	10	20	12	12	
32	G. Komali Priya	237N1R0032	10	10	20	10	8	18	13	12	
33	G. Sri Lakshmi	237N1R0033	10	12	22	10	14	24	13	13	
34	J. Madhurima	237N1R0034	10	6	16	10	10	20	12	12	
35	J. Navya	237N1R0035	10	10	20	10	10	20	12	13	
36	J. Bhavya Sri	237N1R0036	10	11	21	10	8	18	12	13	
37	J. Akshitha	237N1R0037	10	13	23	10	13	23	13	13	
38	K. Lakshmi Deepika	237N1R0038	10	8	18	10	12	22	12	13	
39	K. Arthi Pravallika	237N1R0039	10	7	17	10	7	17	12	12	
40	K. Pranathi	237N1R0040	10	3	13	10	9	19	12	5	

S.NO	Name of the Student	Register No	I MID			II MID			Practical		Remarks
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41	K. Sri Naga Deepthi	237N1R0041	10	10	20	10	13	23	13	14	
42	K. Ramya	237N1R0042	10	8	18	10	11	21	12	12	
43	K. Indhu	237N1R0043	10	7	17	10	10	20	12	13	
44	K. Sai kavya	237N1R0044	10	13	23	10	13	23	14	12	
45	K. Tejaswini	237N1R0045	10	11	21	10	12	22	12	14	
46	K. Geetha Nhuya Sri	237N1R0046	10	4	14	10	10	20	12	11	
47	K. Meghana	237N1R0047	10	12	22	10	10	20	13	13	
48	K. Maha lakshmi	237N1R0048	10	12	22	10	10	20	12	12	
49	K. Mahija	237N1R0049	10	12	22	10	9	19	13	12	
50	K. Manasa	237N1R0050	10	10	20	10	9	19	11	11	
51	K. Divya Sri	237N1R0051	10	13	23	10	12	22	12	14	
52	K. Bhuvana	237N1R0052	10	11	21	10	13	23	12	13	
53	L. Honey Rose	237N1R0053	10	5	15	10	9	19	11	11	
54	M. Meenakshi Devi	237N1R0054	10	9	19	10	12	22	12	12	
55	M. Manvitha	237N1R0055	10	7	17	10	9	19	12	13	
56	Mary christina Burri	237N1R0056	10	12	22	10	9	19	12	12	
57	M. Tini Vinytha	237N1R0057	10	6	16	10	8	18	13	12	
58	M. Geya Sri	237N1R0058	10	6	16	10	11	21	13	13	
59	M. Thabitha	237N1R0059	10	9	19	10	10	20	12	13	
60	M. Akhila	237N1R0060	10	9	19	10	7	17	12	12	

SNO	Name of the student	Register No	I MID			II MID			Practical		Remarks
			CM	SM	Total	CM	SM	Total	IMid	IIMid	
61	M. Leelavathi	237N1R0061	10	9	19	10	13	23	13	12	
62	M. Asma	237N1R0062	10	7	17	10	9	19	12	11	
63	M. Tasleema	237N1R0063	10	9	19	10	8	18	14	10	
64	M. Daiva krupa	237N1R0064	10	9	19	10	8	18	13	13	
65	M. Akshaya	237N1R0065	10	9	19	10	8	18	13	13	
66	N. Bindu	237N1R0066	10	11	21	10	11	21	13	13	
67	N. Lakshmi Harika	237N1R0067	10	12	22	10	9	19	12	13	
68	N. Thambi Rani	237N1R0068	10	9	19	10	8	18	13	12	
69	N. Navya Sri	237N1R0069	10	7	17	10	10	20	12	10	
70	N. Durga Bhavani	237N1R0070	10	11	21	10	13	23	14	13	
71	P. Usha Latha	237N1R0071	10	8	18	10	9	19	12	12	
72	P. Harshini	237N1R0072	10	9	19	10	9	19	13	13	
73	P. Narmada	237N1R0073	10	12	22	10	11	21	13	14	
74	P. Naga lakshmi Siree	237N1R0074	10	10	20	10	9	19	12	13	
75	P. Nikhitha	237N1R0075	10	9	19	10	13	23	13	13	
76	P. Venkata laxmi Poojitha	237N1R0076	10	13	23	10	13	23	14	14	
77	P. Akhila	237N1R0077	10	13	23	10	12	22	13	14	
78	P. Venkata Sreenija	237N1R0078	10	7	17	10	8	18	12	12	
79	P. Sai	237N1R0079	10	7	17	10	10	20	13	11	
80	P. Devi Priya	237N1R0080	10	6	16	10	11	21	13	13	

S.NO	Name of the Student	Register No	I MID			II MID			Practical		Remarks
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81	P. Bala Santhoshi	237N1R0081	10	12	22	10	12	22	14	11	
82	R. Fujitha	237N1R0082	10	12	22	10	11	21	14	14	
83	R. Devamani	237N1R0083	10	9	19	10	10	20	13	10	
84	R. Divya Sree	237N1R0084	10	8	18	10	11	21	12	11	
85	S. Priyanka	237N1R0085	10	11	21	10	11	21	13	14	
86	SK. Afreen Nishath	237N1R0086	10	8	18	10	9	19	13	13	
87	SK. Asmasulthana	237N1R0087	10	9	19	10	7	17	13	12	
88	SK. Farzana	237N1R0088	10	9	19	10	9	19	13	13	
89	SK. Meharoen	237N1R0089	10	9	19	10	7	17	13	13	
90	SK. Nasreen	237N1R0090	10	6	16	10	12	22	12	12	
91	SK. Saniya	237N1R0091	10	3	13	10	13	23	14	13	
92	SK. Subana	237N1R0092	10	10	20	10	11	21	13	13	
93	S. Haritha	237N1R0093	10	11	21	10	10	20	13	14	
94	Sd. Rameejun	237N1R0094	10	9	19	10	9	19	14	12	
95	Sd. Rizwana	237N1R0095	10	9	19	10	0	10	13	5	
96	T. Sravanthi	237N1R0096	10	6	16	10	10	20	13	12	
97	T. Sai Supriya	237N1R0097	10	7	17	10	12	22	13	13	
98	R. Tammina	237N1R0098	10	13	23	10	12	22	13	14	
99	T. Teja Sri	237N1R0099	10	4	14	10	7	17	13	11	
100	T. Baby Sarojini	237N1R00A0	10	6	16	10	9	19	13	13	

S.No	Name of the Student	Register NO	I MID			II MID			Practical		Remarks
			CM	SM	Total	CM	SM	Total	I Mid	II Mid	
101	T. Mydhili	237N1R00A1	10	5	15	10	8	18	12	13	
102	U. Swathi Jahnavi	237N1R00A2	10	9	19	10	10	20	12	14	
103	V. Lakshmi Sai	237N1R00A3	10	9	19	10	9	19	14	13	
104	V. Venkata Mahalakshmi	237N1R00A4	10	9	19	10	8	18	13	13	
105	V. Mounika	237N1R00A5	10	6	16	10	10	20	12	13	
106	V. Jahnavi	237N1R00A6	10	10	20	10	13	23	14	13	
107	V. Pujitha	237N1R00A7	10	10	20	10	10	20	14	14	
108	V. Prasanna Kumari	237N1R00A8	10	4	14	10	8	18	12	5	
109	Y. Sanjana	237N1R00A9	10	13	23	10	14	24	14	14	
110.	Y. Adarshitha	237N1R00B0	10	7	17	10	10	20	13	13	

Entered By G. Bhavani

EXAMS-INCHARGE
VIJAYA INSTITUTE
PHARMACEUTICAL SCIENCES FOR WOMEN
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Final PDF for I B.Pharmacy [PCI] II Semester Internal marks

College: VIJAYA INSTITUTE OF PHARMACEUICAL SCIENCES FOR WOMEN:7N

Date:25-09-2024

HTNO	SUBJECT	CM1	SE1	CM2	SE2	Total	NON UNI EXT	SUB_TYPE
237N1R0001	BP201T	10	10	10	9	20	0	T
237N1R0003	BP201T	10	13	10	12	23	0	T
237N1R0004	BP201T	10	12	10	12	22	0	T
237N1R0005	BP201T	10	9	10	10	20	0	T
237N1R0006	BP201T	10	12	10	13	23	0	T
237N1R0007	BP201T	10	15	10	15	25	0	T
237N1R0008	BP201T	10	14	10	14	24	0	T
237N1R0009	BP201T	10	14	10	14	24	0	T
237N1R0010	BP201T	10	13	10	14	24	0	T
237N1R0011	BP201T	10	14	10	13	24	0	T
237N1R0012	BP201T	10	9	10	12	21	0	T
237N1R0013	BP201T	10	14	10	12	23	0	T
237N1R0014	BP201T	10	4	10	9	17	0	T
237N1R0015	BP201T	10	11	10	11	21	0	T
237N1R0016	BP201T	10	12	10	12	22	0	T
237N1R0017	BP201T	10	11	10	12	22	0	T
237N1R0018	BP201T	10	12	10	13	23	0	T
237N1R0019	BP201T	10	9	10	11	20	0	T
237N1R0020	BP201T	10	9	10	8	19	0	T
237N1R0021	BP201T	10	12	10	10	21	0	T
237N1R0022	BP201T	10	12	10	14	23	0	T
237N1R0023	BP201T	10	14	10	12	23	0	T
237N1R0024	BP201T	10	14	10	13	24	0	T
237N1R0025	BP201T	10	14	10	12	23	0	T
237N1R0026	BP201T	10	14	10	13	24	0	T
237N1R0027	BP201T	10	13	10	13	23	0	T
237N1R0028	BP201T	10	11	10	13	22	0	T
237N1R0029	BP201T	10	11	10	13	22	0	T
237N1R0030	BP201T	10	12	10	13	23	0	T
237N1R0031	BP201T	10	10	10	10	20	0	T
237N1R0032	BP201T	10	13	10	12	23	0	T
237N1R0033	BP201T	10	13	10	13	23	0	T
237N1R0034	BP201T	10	12	10	11	22	0	T
237N1R0035	BP201T	10	13	10	13	23	0	T
237N1R0036	BP201T	10	9	10	9	19	0	T
237N1R0037	BP201T	10	14	10	14	24	0	T
237N1R0038	BP201T	10	9	10	12	21	0	T
237N1R0039	BP201T	10	10	10	11	21	0	T
237N1R0040	BP201T	10	6	10	10	18	0	T
237N1R0041	BP201T	10	11	10	13	22	0	T
237N1R0042	BP201T	10	10	10	10	20	0	T
237N1R0043	BP201T	10	7	10	12	20	0	T

HTNO	SUBJECT	CM1	SE1	CM2	SE2	Total	NON UNI EXT	SUB_TYPE
237N1R0044	BP201T	10	12	10	13	23	0	T
237N1R0045	BP201T	10	13	10	12	23	0	T
237N1R0046	BP201T	10	10	10	10	20	0	T
237N1R0047	BP201T	10	13	10	13	23	0	T
237N1R0048	BP201T	10	14	10	13	24	0	T
237N1R0049	BP201T	10	12	10	13	23	0	T
237N1R0050	BP201T	10	10	10	12	21	0	T
237N1R0051	BP201T	10	13	10	13	23	0	T
237N1R0052	BP201T	10	12	10	13	23	0	T
237N1R0053	BP201T	10	7	10	9	18	0	T
237N1R0054	BP201T	10	13	10	12	23	0	T
237N1R0055	BP201T	10	14	10	13	24	0	T
237N1R0056	BP201T	10	12	10	12	22	0	T
237N1R0057	BP201T	10	12	10	14	23	0	T
237N1R0058	BP201T	10	13	10	13	23	0	T
237N1R0059	BP201T	10	10	10	13	22	0	T
237N1R0060	BP201T	10	12	10	12	22	0	T
237N1R0061	BP201T	10	12	10	14	23	0	T
237N1R0062	BP201T	10	6	10	6	16	0	T
237N1R0063	BP201T	10	0	10	10	15	0	T
237N1R0064	BP201T	10	11	10	14	23	0	T
237N1R0065	BP201T	10	14	10	13	24	0	T
237N1R0066	BP201T	10	14	10	12	23	0	T
237N1R0067	BP201T	10	11	10	13	22	0	T
237N1R0068	BP201T	10	9	10	13	21	0	T
237N1R0069	BP201T	10	10	10	12	21	0	T
237N1R0070	BP201T	10	14	10	12	23	0	T
237N1R0071	BP201T	10	7	10	12	20	0	T
237N1R0072	BP201T	10	13	10	13	23	0	T
237N1R0073	BP201T	10	14	10	14	24	0	T
237N1R0074	BP201T	10	11	10	12	22	0	T
237N1R0075	BP201T	10	13	10	14	24	0	T
237N1R0076	BP201T	10	14	10	14	24	0	T
237N1R0077	BP201T	10	13	10	14	24	0	T
237N1R0078	BP201T	10	11	10	12	22	0	T
237N1R0079	BP201T	10	12	10	11	22	0	T
237N1R0080	BP201T	10	11	10	13	22	0	T
237N1R0081	BP201T	10	13	10	12	23	0	T
237N1R0082	BP201T	10	12	10	14	23	0	T
237N1R0083	BP201T	10	13	10	12	23	0	T
237N1R0084	BP201T	10	11	10	11	21	0	T
237N1R0085	BP201T	10	13	10	14	24	0	T
237N1R0086	BP201T	10	11	10	10	21	0	T
237N1R0087	BP201T	10	10	10	11	21	0	T
237N1R0088	BP201T	10	8	10	12	20	0	T
237N1R0089	BP201T	10	11	10	12	22	0	T
237N1R0090	BP201T	10	7	10	5	16	0	T
237N1R0091	BP201T	10	14	10	14	24	0	T
237N1R0092	BP201T	10	13	10	13	23	0	T
237N1R0093	BP201T	10	13	10	13	23	0	T

HTNO	SUBJECT	CM1	SE1	CM2	SE2	Total	NON UNI EXT	SUB_TYPE
237N1R0094	BP201T	10	8	10	9	19	0	T
237N1R0096	BP201T	10	12	10	11	22	0	T
237N1R0097	BP201T	10	14	10	12	23	0	T
237N1R0098	BP201T	10	14	10	14	24	0	T
237N1R0099	BP201T	0	0	0	0	0	0	T
237N1R00A0	BP201T	10	11	10	13	22	0	T
237N1R00A1	BP201T	10	6	10	9	18	0	T
237N1R00A2	BP201T	10	13	10	13	23	0	T
237N1R00A3	BP201T	10	13	10	12	23	0	T
237N1R00A4	BP201T	10	12	10	13	23	0	T
237N1R00A5	BP201T	10	12	10	13	23	0	T
237N1R00A6	BP201T	10	13	10	12	23	0	T
237N1R00A7	BP201T	10	13	10	13	23	0	T
237N1R00A8	BP201T	10	10	10	9	20	0	T
237N1R00A9	BP201T	10	12	10	13	23	0	T
237N1R00B0	BP201T	10	11	10	12	22	0	T
237N1R0001	BP202T	10	6	10	8	17	0	T
237N1R0003	BP202T	10	11	10	9	20	0	T
237N1R0004	BP202T	10	10	10	8	19	0	T
237N1R0005	BP202T	10	9	10	12	21	0	T
237N1R0006	BP202T	10	15	10	15	25	0	T
237N1R0007	BP202T	10	15	10	14	25	0	T
237N1R0008	BP202T	10	14	10	13	24	0	T
237N1R0009	BP202T	10	15	10	15	25	0	T
237N1R0010	BP202T	10	10	10	9	20	0	T
237N1R0011	BP202T	10	9	10	11	20	0	T
237N1R0012	BP202T	10	9	10	0	15	0	T
237N1R0013	BP202T	10	10	10	12	21	0	T
237N1R0014	BP202T	10	6	10	7	17	0	T
237N1R0015	BP202T	10	7	10	6	17	0	T
237N1R0016	BP202T	10	12	10	8	20	0	T
237N1R0017	BP202T	10	8	10	9	19	0	T
237N1R0018	BP202T	10	12	10	12	22	0	T
237N1R0019	BP202T	10	10	10	10	20	0	T
237N1R0020	BP202T	10	8	10	0	14	0	T
237N1R0021	BP202T	10	11	10	10	21	0	T
237N1R0022	BP202T	10	14	10	15	25	0	T
237N1R0023	BP202T	10	11	10	15	23	0	T
237N1R0024	BP202T	10	10	10	15	23	0	T
237N1R0025	BP202T	10	8	10	15	22	0	T
237N1R0026	BP202T	10	11	10	15	23	0	T
237N1R0027	BP202T	10	8	10	8	18	0	T
237N1R0028	BP202T	10	6	10	6	16	0	T
237N1R0029	BP202T	10	9	10	7	18	0	T
237N1R0030	BP202T	10	8	10	11	20	0	T
237N1R0031	BP202T	10	4	10	10	17	0	T
237N1R0032	BP202T	10	8	10	12	20	0	T
237N1R0033	BP202T	10	14	10	10	22	0	T
237N1R0034	BP202T	10	7	10	10	19	0	T
237N1R0035	BP202T	10	10	10	12	21	0	T

HTNO	SUBJECT	CM1	SE1	CM2	SE2	Total	NON UNI EXT	SUB_TYPE
237N1R0036	BP202T	10	10	10	9	20	0	T
237N1R0037	BP202T	10	15	10	13	24	0	T
237N1R0038	BP202T	10	8	10	12	20	0	T
237N1R0039	BP202T	10	7	10	10	19	0	T
237N1R0040	BP202T	10	4	10	7	16	0	T
237N1R0041	BP202T	10	11	10	12	22	0	T
237N1R0042	BP202T	10	9	10	11	20	0	T
237N1R0043	BP202T	10	6	10	9	18	0	T
237N1R0044	BP202T	10	11	10	10	21	0	T
237N1R0045	BP202T	10	12	10	12	22	0	T
237N1R0046	BP202T	10	7	10	10	19	0	T
237N1R0047	BP202T	10	11	10	13	22	0	T
237N1R0048	BP202T	10	10	10	10	20	0	T
237N1R0049	BP202T	10	13	10	10	22	0	T
237N1R0050	BP202T	10	8	10	11	20	0	T
237N1R0051	BP202T	10	13	10	10	22	0	T
237N1R0052	BP202T	10	8	10	12	20	0	T
237N1R0053	BP202T	10	7	10	6	17	0	T
237N1R0054	BP202T	10	13	10	13	23	0	T
237N1R0055	BP202T	10	9	10	10	20	0	T
237N1R0056	BP202T	10	9	10	9	19	0	T
237N1R0057	BP202T	10	7	10	9	18	0	T
237N1R0058	BP202T	10	11	10	10	21	0	T
237N1R0059	BP202T	10	10	10	7	19	0	T
237N1R0060	BP202T	10	9	10	6	18	0	T
237N1R0061	BP202T	10	7	10	8	18	0	T
237N1R0062	BP202T	10	7	10	0	14	0	T
237N1R0063	BP202T	10	0	10	6	13	0	T
237N1R0064	BP202T	10	10	10	13	22	0	T
237N1R0065	BP202T	10	9	10	10	20	0	T
237N1R0066	BP202T	10	11	10	13	22	0	T
237N1R0067	BP202T	10	11	10	9	20	0	T
237N1R0068	BP202T	10	9	10	9	19	0	T
237N1R0069	BP202T	10	9	10	9	19	0	T
237N1R0070	BP202T	10	10	10	10	20	0	T
237N1R0071	BP202T	10	9	10	9	19	0	T
237N1R0072	BP202T	10	11	10	10	21	0	T
237N1R0073	BP202T	10	14	10	15	25	0	T
237N1R0074	BP202T	10	8	10	8	18	0	T
237N1R0075	BP202T	10	13	10	13	23	0	T
237N1R0076	BP202T	10	15	10	13	24	0	T
237N1R0077	BP202T	10	14	10	15	25	0	T
237N1R0078	BP202T	10	10	10	11	21	0	T
237N1R0079	BP202T	10	10	10	11	21	0	T
237N1R0080	BP202T	10	11	10	11	21	0	T
237N1R0081	BP202T	10	13	10	10	22	0	T
237N1R0082	BP202T	10	11	10	12	22	0	T
237N1R0083	BP202T	10	10	10	13	22	0	T
237N1R0084	BP202T	10	9	10	7	18	0	T
237N1R0085	BP202T	10	13	10	13	23	0	T

HTNO	SUBJECT	CM1	SE1	CM2	SE2	Total	NON UNI EXT	SUB_TYPE
237N1R0086	BP202T	10	13	10	10	22	0	T
237N1R0087	BP202T	10	9	10	11	20	0	T
237N1R0088	BP202T	10	9	10	8	19	0	T
237N1R0089	BP202T	10	9	10	11	20	0	T
237N1R0090	BP202T	10	6	10	6	16	0	T
237N1R0091	BP202T	10	9	10	11	20	0	T
237N1R0092	BP202T	10	15	10	14	25	0	T
237N1R0093	BP202T	10	10	10	7	19	0	T
237N1R0094	BP202T	10	11	10	12	22	0	T
237N1R0096	BP202T	10	7	10	5	16	0	T
237N1R0097	BP202T	10	12	10	12	22	0	T
237N1R0098	BP202T	10	14	10	14	24	0	T
237N1R0099	BP202T	0	0	0	0	0	0	T
237N1R00A0	BP202T	10	9	10	9	19	0	T
237N1R00A1	BP202T	10	8	10	7	18	0	T
237N1R00A2	BP202T	10	10	10	11	21	0	T
237N1R00A3	BP202T	10	8	10	10	19	0	T
237N1R00A4	BP202T	10	10	10	12	21	0	T
237N1R00A5	BP202T	10	11	10	11	21	0	T
237N1R00A6	BP202T	10	9	10	10	20	0	T
237N1R00A7	BP202T	10	12	10	11	22	0	T
237N1R00A8	BP202T	10	7	10	8	18	0	T
237N1R00A9	BP202T	10	11	10	13	22	0	T
237N1R00B0	BP202T	10	9	10	10	20	0	T
237N1R0001	BP203T	10	11	10	10	21	0	T
237N1R0003	BP203T	10	13	10	12	23	0	T
237N1R0004	BP203T	10	13	10	12	23	0	T
237N1R0005	BP203T	10	14	10	13	24	0	T
237N1R0006	BP203T	10	15	10	13	24	0	T
237N1R0007	BP203T	10	15	10	14	25	0	T
237N1R0008	BP203T	10	14	10	15	25	0	T
237N1R0009	BP203T	10	15	10	15	25	0	T
237N1R0010	BP203T	10	14	10	13	24	0	T
237N1R0011	BP203T	10	15	10	13	24	0	T
237N1R0012	BP203T	10	0	10	6	13	0	T
237N1R0013	BP203T	10	13	10	11	22	0	T
237N1R0014	BP203T	10	8	10	5	17	0	T
237N1R0015	BP203T	10	9	10	13	21	0	T
237N1R0016	BP203T	10	14	10	9	22	0	T
237N1R0017	BP203T	10	14	10	9	22	0	T
237N1R0018	BP203T	10	15	10	14	25	0	T
237N1R0019	BP203T	10	12	10	10	21	0	T
237N1R0020	BP203T	10	9	10	0	15	0	T
237N1R0021	BP203T	10	14	10	11	23	0	T
237N1R0022	BP203T	10	14	10	14	24	0	T
237N1R0023	BP203T	10	14	10	14	24	0	T
237N1R0024	BP203T	10	14	10	15	25	0	T
237N1R0025	BP203T	10	15	10	14	25	0	T
237N1R0026	BP203T	10	15	10	14	25	0	T
237N1R0027	BP203T	10	15	10	14	25	0	T

HTNO	SUBJECT	CM1	SE1	CM2	SE2	Total	NON UNI EXT	SUB_TYPE
237N1R0028	BP203T	10	13	10	10	22	0	T
237N1R0029	BP203T	10	12	10	10	21	0	T
237N1R0030	BP203T	10	14	10	12	23	0	T
237N1R0031	BP203T	10	10	10	12	21	0	T
237N1R0032	BP203T	10	14	10	12	23	0	T
237N1R0033	BP203T	10	14	10	15	25	0	T
237N1R0034	BP203T	10	12	10	14	23	0	T
237N1R0035	BP203T	10	14	10	15	25	0	T
237N1R0036	BP203T	10	11	10	13	22	0	T
237N1R0037	BP203T	10	15	10	12	24	0	T
237N1R0038	BP203T	10	14	10	12	23	0	T
237N1R0039	BP203T	10	13	10	10	22	0	T
237N1R0040	BP203T	10	12	10	12	22	0	T
237N1R0041	BP203T	10	15	10	12	24	0	T
237N1R0042	BP203T	10	13	10	13	23	0	T
237N1R0043	BP203T	10	11	10	11	21	0	T
237N1R0044	BP203T	10	14	10	14	24	0	T
237N1R0045	BP203T	10	14	10	13	24	0	T
237N1R0046	BP203T	10	8	10	12	20	0	T
237N1R0047	BP203T	10	14	10	14	24	0	T
237N1R0048	BP203T	10	14	10	12	23	0	T
237N1R0049	BP203T	10	14	10	12	23	0	T
237N1R0050	BP203T	10	14	10	12	23	0	T
237N1R0051	BP203T	10	15	10	11	23	0	T
237N1R0052	BP203T	10	15	10	14	25	0	T
237N1R0053	BP203T	10	12	10	10	21	0	T
237N1R0054	BP203T	10	13	10	13	23	0	T
237N1R0055	BP203T	10	14	10	13	24	0	T
237N1R0056	BP203T	10	14	10	15	25	0	T
237N1R0057	BP203T	10	14	10	13	24	0	T
237N1R0058	BP203T	10	14	10	13	24	0	T
237N1R0059	BP203T	10	12	10	10	21	0	T
237N1R0060	BP203T	10	8	10	8	18	0	T
237N1R0061	BP203T	10	13	10	12	23	0	T
237N1R0062	BP203T	10	10	10	7	19	0	T
237N1R0063	BP203T	10	0	10	0	10	0	T
237N1R0064	BP203T	10	14	10	13	24	0	T
237N1R0065	BP203T	10	13	10	11	22	0	T
237N1R0066	BP203T	10	13	10	13	23	0	T
237N1R0067	BP203T	10	14	10	15	25	0	T
237N1R0068	BP203T	10	10	10	5	18	0	T
237N1R0069	BP203T	10	13	10	13	23	0	T
237N1R0070	BP203T	10	14	10	15	25	0	T
237N1R0071	BP203T	10	10	10	11	21	0	T
237N1R0072	BP203T	10	14	10	13	24	0	T
237N1R0073	BP203T	10	15	10	15	25	0	T
237N1R0074	BP203T	10	12	10	11	22	0	T
237N1R0075	BP203T	10	14	10	15	25	0	T
237N1R0076	BP203T	10	14	10	14	24	0	T
237N1R0077	BP203T	10	14	10	15	25	0	T

HTNO	SUBJECT	CM1	SE1	CM2	SE2	Total	NON UNI EXT	SUB_TYPE
237N1R0078	BP203T	10	13	10	10	22	0	T
237N1R0079	BP203T	10	14	10	13	24	0	T
237N1R0080	BP203T	10	13	10	11	22	0	T
237N1R0081	BP203T	10	15	10	13	24	0	T
237N1R0082	BP203T	10	14	10	14	24	0	T
237N1R0083	BP203T	10	14	10	14	24	0	T
237N1R0084	BP203T	10	14	10	11	23	0	T
237N1R0085	BP203T	10	15	10	15	25	0	T
237N1R0086	BP203T	10	14	10	12	23	0	T
237N1R0087	BP203T	10	13	10	10	22	0	T
237N1R0088	BP203T	10	10	10	10	20	0	T
237N1R0089	BP203T	10	14	10	13	24	0	T
237N1R0090	BP203T	10	10	10	5	18	0	T
237N1R0091	BP203T	10	13	10	14	24	0	T
237N1R0092	BP203T	10	14	10	14	24	0	T
237N1R0093	BP203T	10	15	10	10	23	0	T
237N1R0094	BP203T	10	14	10	14	24	0	T
237N1R0096	BP203T	10	12	10	10	21	0	T
237N1R0097	BP203T	10	14	10	13	24	0	T
237N1R0098	BP203T	10	15	10	15	25	0	T
237N1R0099	BP203T	0	0	0	0	0	0	T
237N1R00A0	BP203T	10	15	10	13	24	0	T
237N1R00A1	BP203T	10	10	10	8	19	0	T
237N1R00A2	BP203T	10	14	10	14	24	0	T
237N1R00A3	BP203T	10	13	10	12	23	0	T
237N1R00A4	BP203T	10	15	10	14	25	0	T
237N1R00A5	BP203T	10	15	10	14	25	0	T
237N1R00A6	BP203T	10	14	10	15	25	0	T
237N1R00A7	BP203T	10	14	10	13	24	0	T
237N1R00A8	BP203T	10	13	10	11	22	0	T
237N1R00A9	BP203T	10	14	10	14	24	0	T
237N1R00B0	BP203T	10	14	10	14	24	0	T
237N1R0001	BP204T	10	11	10	11	21	0	T
237N1R0003	BP204T	10	10	10	10	20	0	T
237N1R0004	BP204T	10	12	10	10	21	0	T
237N1R0005	BP204T	10	9	10	10	20	0	T
237N1R0006	BP204T	10	11	10	8	20	0	T
237N1R0007	BP204T	10	12	10	11	22	0	T
237N1R0008	BP204T	10	9	10	11	20	0	T
237N1R0009	BP204T	10	12	10	13	23	0	T
237N1R0010	BP204T	10	10	10	11	21	0	T
237N1R0011	BP204T	10	10	10	12	21	0	T
237N1R0012	BP204T	10	4	10	5	15	0	T
237N1R0013	BP204T	10	9	10	12	21	0	T
237N1R0014	BP204T	10	3	10	4	14	0	T
237N1R0015	BP204T	10	9	10	11	20	0	T
237N1R0016	BP204T	10	10	10	11	21	0	T
237N1R0017	BP204T	10	9	10	11	20	0	T
237N1R0018	BP204T	10	11	10	13	22	0	T
237N1R0019	BP204T	10	10	10	12	21	0	T

HTNO	SUBJECT	CM1	SE1	CM2	SE2	Total	NON UNI EXT	SUB_TYPE
237N1R0020	BP204T	10	6	10	10	18	0	T
237N1R0021	BP204T	10	9	10	11	20	0	T
237N1R0022	BP204T	10	12	10	13	23	0	T
237N1R0023	BP204T	10	9	10	11	20	0	T
237N1R0024	BP204T	10	11	10	13	22	0	T
237N1R0025	BP204T	10	9	10	12	21	0	T
237N1R0026	BP204T	10	11	10	12	22	0	T
237N1R0027	BP204T	10	9	10	11	20	0	T
237N1R0028	BP204T	10	10	10	11	21	0	T
237N1R0029	BP204T	10	9	10	11	20	0	T
237N1R0030	BP204T	10	9	10	11	20	0	T
237N1R0031	BP204T	10	6	10	10	18	0	T
237N1R0032	BP204T	10	10	10	11	21	0	T
237N1R0033	BP204T	10	11	10	12	22	0	T
237N1R0034	BP204T	10	10	10	11	21	0	T
237N1R0035	BP204T	10	11	10	12	22	0	T
237N1R0036	BP204T	10	9	10	12	21	0	T
237N1R0037	BP204T	10	11	10	12	22	0	T
237N1R0038	BP204T	10	9	10	11	20	0	T
237N1R0039	BP204T	10	8	10	10	19	0	T
237N1R0040	BP204T	10	7	10	10	19	0	T
237N1R0041	BP204T	10	9	10	11	20	0	T
237N1R0042	BP204T	10	9	10	10	20	0	T
237N1R0043	BP204T	10	2	10	4	13	0	T
237N1R0044	BP204T	10	10	10	11	21	0	T
237N1R0045	BP204T	10	10	10	11	21	0	T
237N1R0046	BP204T	10	6	10	10	18	0	T
237N1R0047	BP204T	10	10	10	12	21	0	T
237N1R0048	BP204T	10	10	10	11	21	0	T
237N1R0049	BP204T	10	8	10	10	19	0	T
237N1R0050	BP204T	10	7	10	10	19	0	T
237N1R0051	BP204T	10	10	10	12	21	0	T
237N1R0052	BP204T	10	13	10	13	23	0	T
237N1R0053	BP204T	10	7	10	10	19	0	T
237N1R0054	BP204T	10	10	10	11	21	0	T
237N1R0055	BP204T	10	12	10	11	22	0	T
237N1R0056	BP204T	10	10	10	11	21	0	T
237N1R0057	BP204T	10	11	10	12	22	0	T
237N1R0058	BP204T	10	11	10	12	22	0	T
237N1R0059	BP204T	10	7	10	10	19	0	T
237N1R0060	BP204T	10	6	10	10	18	0	T
237N1R0061	BP204T	10	10	10	12	21	0	T
237N1R0062	BP204T	10	8	10	10	19	0	T
237N1R0063	BP204T	10	0	10	10	15	0	T
237N1R0064	BP204T	10	12	10	12	22	0	T
237N1R0065	BP204T	10	8	10	10	19	0	T
237N1R0066	BP204T	10	9	10	10	20	0	T
237N1R0067	BP204T	10	9	10	11	20	0	T
237N1R0068	BP204T	10	3	10	5	14	0	T
237N1R0069	BP204T	10	5	10	6	16	0	T

HTNO	SUBJECT	CM1	SE1	CM2	SE2	Total	NON UNI EXT	SUB_TYPE
237N1R0070	BP204T	10	10	10	11	21	0	T
237N1R0071	BP204T	10	7	10	10	19	0	T
237N1R0072	BP204T	10	12	10	13	23	0	T
237N1R0073	BP204T	10	13	10	13	23	0	T
237N1R0074	BP204T	10	9	10	9	19	0	T
237N1R0075	BP204T	10	11	10	12	22	0	T
237N1R0076	BP204T	10	11	10	12	22	0	T
237N1R0077	BP204T	10	6	10	10	18	0	T
237N1R0078	BP204T	10	12	10	13	23	0	T
237N1R0079	BP204T	10	7	10	10	19	0	T
237N1R0080	BP204T	10	9	10	11	20	0	T
237N1R0081	BP204T	10	10	10	11	21	0	T
237N1R0082	BP204T	10	10	10	11	21	0	T
237N1R0083	BP204T	10	11	10	12	22	0	T
237N1R0084	BP204T	10	6	10	10	18	0	T
237N1R0085	BP204T	10	12	10	13	23	0	T
237N1R0086	BP204T	10	7	10	10	19	0	T
237N1R0087	BP204T	10	7	10	10	19	0	T
237N1R0088	BP204T	10	5	10	8	17	0	T
237N1R0089	BP204T	10	8	10	9	19	0	T
237N1R0090	BP204T	10	7	10	9	18	0	T
237N1R0091	BP204T	10	13	10	13	23	0	T
237N1R0092	BP204T	10	8	10	10	19	0	T
237N1R0093	BP204T	10	10	10	12	21	0	T
237N1R0094	BP204T	10	7	10	10	19	0	T
237N1R0096	BP204T	10	8	10	10	19	0	T
237N1R0097	BP204T	10	11	10	12	22	0	T
237N1R0098	BP204T	10	11	10	11	21	0	T
237N1R0099	BP204T	0	0	0	0	0	0	T
237N1R00A0	BP204T	10	10	10	11	21	0	T
237N1R00A1	BP204T	10	3	10	5	14	0	T
237N1R00A2	BP204T	10	9	10	10	20	0	T
237N1R00A3	BP204T	10	10	10	11	21	0	T
237N1R00A4	BP204T	10	7	10	10	19	0	T
237N1R00A5	BP204T	10	8	10	10	19	0	T
237N1R00A6	BP204T	10	10	10	12	21	0	T
237N1R00A7	BP204T	10	7	10	10	19	0	T
237N1R00A8	BP204T	10	6	10	9	18	0	T
237N1R00A9	BP204T	10	9	10	10	20	0	T
237N1R00B0	BP204T	10	6	10	9	18	0	T
237N1R0001	BP205T	10	14	10	14	24	45	AT
237N1R0003	BP205T	10	13	10	12	23	38	AT
237N1R0004	BP205T	10	9	10	14	22	39	AT
237N1R0005	BP205T	10	14	10	15	25	50	AT
237N1R0006	BP205T	10	12	10	14	23	45	AT
237N1R0007	BP205T	10	15	10	15	25	50	AT
237N1R0008	BP205T	10	15	10	13	24	44	AT
237N1R0009	BP205T	10	13	10	15	24	50	AT
237N1R0010	BP205T	10	12	10	13	23	40	AT
237N1R0011	BP205T	10	15	10	13	24	38	AT

HTNO	SUBJECT	CM1	SE1	CM2	SE2	Total	NON UNI EXT	SUB_TYPE
237N1R0012	BP205T	10	12	10	15	24	36	AT
237N1R0013	BP205T	10	14	10	15	25	46	AT
237N1R0014	BP205T	10	9	10	5	17	28	AT
237N1R0015	BP205T	10	13	10	15	24	38	AT
237N1R0016	BP205T	10	14	10	10	22	43	AT
237N1R0017	BP205T	10	15	10	14	25	41	AT
237N1R0018	BP205T	10	14	10	14	24	41	AT
237N1R0019	BP205T	10	13	10	14	24	43	AT
237N1R0020	BP205T	10	8	10	0	14	0	AT
237N1R0021	BP205T	10	13	10	15	24	47	AT
237N1R0022	BP205T	10	15	10	15	25	48	AT
237N1R0023	BP205T	10	15	10	15	25	49	AT
237N1R0024	BP205T	10	15	10	13	24	47	AT
237N1R0025	BP205T	10	15	10	15	25	50	AT
237N1R0026	BP205T	10	15	10	15	25	43	AT
237N1R0027	BP205T	10	15	10	15	25	47	AT
237N1R0028	BP205T	10	10	10	10	20	45	AT
237N1R0029	BP205T	10	8	10	7	18	37	AT
237N1R0030	BP205T	10	13	10	15	24	48	AT
237N1R0031	BP205T	10	6	10	10	18	45	AT
237N1R0032	BP205T	10	13	10	15	24	45	AT
237N1R0033	BP205T	10	15	10	0	18	0	AT
237N1R0034	BP205T	10	13	10	13	23	45	AT
237N1R0035	BP205T	10	15	10	15	25	44	AT
237N1R0036	BP205T	10	13	10	14	24	50	AT
237N1R0037	BP205T	10	15	10	15	25	49	AT
237N1R0038	BP205T	10	15	10	10	23	41	AT
237N1R0039	BP205T	10	11	10	12	22	44	AT
237N1R0040	BP205T	10	12	10	11	22	46	AT
237N1R0041	BP205T	10	13	10	15	24	40	AT
237N1R0042	BP205T	10	15	10	11	23	42	AT
237N1R0043	BP205T	10	10	10	11	21	42	AT
237N1R0044	BP205T	10	15	10	15	25	46	AT
237N1R0045	BP205T	10	14	10	14	24	49	AT
237N1R0046	BP205T	10	10	10	12	21	47	AT
237N1R0047	BP205T	10	15	10	14	25	50	AT
237N1R0048	BP205T	10	14	10	13	24	49	AT
237N1R0049	BP205T	10	14	10	11	23	39	AT
237N1R0050	BP205T	10	14	10	8	21	36	AT
237N1R0051	BP205T	10	12	10	13	23	48	AT
237N1R0052	BP205T	10	15	10	14	25	50	AT
237N1R0053	BP205T	10	12	10	12	22	34	AT
237N1R0054	BP205T	10	15	10	12	24	49	AT
237N1R0055	BP205T	10	15	10	14	25	49	AT
237N1R0056	BP205T	10	12	10	14	23	50	AT
237N1R0057	BP205T	10	14	10	15	25	49	AT
237N1R0058	BP205T	10	13	10	14	24	48	AT
237N1R0059	BP205T	10	7	10	15	21	45	AT
237N1R0060	BP205T	10	3	10	10	17	40	AT
237N1R0061	BP205T	10	15	10	13	24	46	AT

HTNO	SUBJECT	CM1	SE1	CM2	SE2	Total	NON UNI EXT	SUB_TYPE
237N1R0062	BP205T	10	12	10	0	16	29	AT
237N1R0063	BP205T	10	0	10	0	10	30	AT
237N1R0064	BP205T	10	15	10	15	25	49	AT
237N1R0065	BP205T	10	15	10	13	24	49	AT
237N1R0066	BP205T	10	13	10	15	24	45	AT
237N1R0067	BP205T	10	14	10	11	23	44	AT
237N1R0068	BP205T	10	3	10	0	12	29	AT
237N1R0069	BP205T	10	13	10	11	22	47	AT
237N1R0070	BP205T	10	15	10	15	25	43	AT
237N1R0071	BP205T	10	11	10	13	22	46	AT
237N1R0072	BP205T	10	13	10	15	24	47	AT
237N1R0073	BP205T	10	14	10	15	25	50	AT
237N1R0074	BP205T	10	8	10	13	21	45	AT
237N1R0075	BP205T	10	15	10	15	25	50	AT
237N1R0076	BP205T	10	15	10	15	25	48	AT
237N1R0077	BP205T	10	15	10	15	25	49	AT
237N1R0078	BP205T	10	14	10	13	24	35	AT
237N1R0079	BP205T	10	12	10	11	22	43	AT
237N1R0080	BP205T	10	15	10	15	25	50	AT
237N1R0081	BP205T	10	13	10	13	23	50	AT
237N1R0082	BP205T	10	13	10	13	23	41	AT
237N1R0083	BP205T	10	15	10	15	25	49	AT
237N1R0084	BP205T	10	14	10	12	23	47	AT
237N1R0085	BP205T	10	13	10	13	23	42	AT
237N1R0086	BP205T	10	15	10	11	23	50	AT
237N1R0087	BP205T	10	13	10	9	21	47	AT
237N1R0088	BP205T	10	12	10	11	22	39	AT
237N1R0089	BP205T	10	13	10	15	24	50	AT
237N1R0090	BP205T	10	9	10	7	18	35	AT
237N1R0091	BP205T	10	15	10	15	25	48	AT
237N1R0092	BP205T	10	14	10	14	24	44	AT
237N1R0093	BP205T	10	15	10	13	24	48	AT
237N1R0094	BP205T	10	11	10	14	23	49	AT
237N1R0096	BP205T	10	14	10	15	25	49	AT
237N1R0097	BP205T	10	14	10	14	24	48	AT
237N1R0098	BP205T	10	15	10	15	25	49	AT
237N1R0099	BP205T	0	0	0	0	0	0	AT
237N1R00A0	BP205T	10	14	10	13	24	47	AT
237N1R00A1	BP205T	10	11	10	10	21	44	AT
237N1R00A2	BP205T	10	14	10	14	24	48	AT
237N1R00A3	BP205T	10	13	10	12	23	43	AT
237N1R00A4	BP205T	10	14	10	15	25	49	AT
237N1R00A5	BP205T	10	13	10	13	23	44	AT
237N1R00A6	BP205T	10	15	10	15	25	50	AT
237N1R00A7	BP205T	10	13	10	15	24	49	AT
237N1R00A8	BP205T	10	13	10	13	23	42	AT
237N1R00A9	BP205T	10	15	10	15	25	48	AT
237N1R00B0	BP205T	10	13	10	15	24	47	AT
237N1R0001	BP206T	10	10	10	7	19	29	AT
237N1R0003	BP206T	10	10	10	10	20	37	AT

HTNO	SUBJECT	CM1	SE1	CM2	SE2	Total	NON UNI EXT	SUB_TYPE
237N1R0004	BP206T	10	9	10	11	20	40	AT
237N1R0005	BP206T	10	8	10	12	20	42	AT
237N1R0006	BP206T	10	10	10	12	21	38	AT
237N1R0007	BP206T	10	14	10	15	25	43	AT
237N1R0008	BP206T	10	14	10	14	24	38	AT
237N1R0009	BP206T	10	14	10	15	25	39	AT
237N1R0010	BP206T	10	10	10	11	21	39	AT
237N1R0011	BP206T	10	11	10	9	20	36	AT
237N1R0012	BP206T	10	6	10	8	17	38	AT
237N1R0013	BP206T	10	12	10	11	22	40	AT
237N1R0014	BP206T	10	7	10	2	15	28	AT
237N1R0015	BP206T	10	11	10	8	20	36	AT
237N1R0016	BP206T	10	9	10	9	19	38	AT
237N1R0017	BP206T	10	7	10	5	16	41	AT
237N1R0018	BP206T	10	12	10	10	21	34	AT
237N1R0019	BP206T	10	7	10	7	17	38	AT
237N1R0020	BP206T	10	5	10	0	13	0	AT
237N1R0021	BP206T	10	13	10	7	20	40	AT
237N1R0022	BP206T	10	13	10	14	24	42	AT
237N1R0023	BP206T	10	14	10	15	25	43	AT
237N1R0024	BP206T	10	13	10	9	21	39	AT
237N1R0025	BP206T	10	14	10	15	25	41	AT
237N1R0026	BP206T	10	14	10	14	24	43	AT
237N1R0027	BP206T	10	13	10	13	23	42	AT
237N1R0028	BP206T	10	12	10	10	21	41	AT
237N1R0029	BP206T	10	10	10	8	19	27	AT
237N1R0030	BP206T	10	10	10	10	20	40	AT
237N1R0031	BP206T	10	8	10	7	18	37	AT
237N1R0032	BP206T	10	10	10	11	21	40	AT
237N1R0033	BP206T	10	14	10	14	24	0	AT
237N1R0034	BP206T	10	12	10	3	18	38	AT
237N1R0035	BP206T	10	10	10	10	20	40	AT
237N1R0036	BP206T	10	11	10	12	22	38	AT
237N1R0037	BP206T	10	14	10	14	24	38	AT
237N1R0038	BP206T	10	9	10	9	19	38	AT
237N1R0039	BP206T	10	9	10	7	18	35	AT
237N1R0040	BP206T	10	11	10	6	19	41	AT
237N1R0041	BP206T	10	12	10	13	23	41	AT
237N1R0042	BP206T	10	9	10	9	19	36	AT
237N1R0043	BP206T	10	7	10	6	17	32	AT
237N1R0044	BP206T	10	10	10	11	21	37	AT
237N1R0045	BP206T	10	10	10	11	21	40	AT
237N1R0046	BP206T	10	10	10	8	19	40	AT
237N1R0047	BP206T	10	11	10	12	22	42	AT
237N1R0048	BP206T	10	13	10	14	24	40	AT
237N1R0049	BP206T	10	9	10	10	20	38	AT
237N1R0050	BP206T	10	7	10	9	18	36	AT
237N1R0051	BP206T	10	10	10	7	19	38	AT
237N1R0052	BP206T	10	13	10	12	23	42	AT
237N1R0053	BP206T	10	8	10	4	16	34	AT

HTNO	SUBJECT	CM1	SE1	CM2	SE2	Total	NON UNI EXT	SUB_TYPE
237N1R0054	BP206T	10	10	10	9	20	40	AT
237N1R0055	BP206T	10	8	10	11	20	38	AT
237N1R0056	BP206T	10	12	10	9	21	37	AT
237N1R0057	BP206T	10	10	10	10	20	37	AT
237N1R0058	BP206T	10	11	10	10	21	37	AT
237N1R0059	BP206T	10	10	10	8	19	36	AT
237N1R0060	BP206T	10	8	10	8	18	33	AT
237N1R0061	BP206T	10	14	10	11	23	38	AT
237N1R0062	BP206T	10	6	10	0	13	27	AT
237N1R0063	BP206T	10	0	10	7	14	27	AT
237N1R0064	BP206T	10	12	10	13	23	41	AT
237N1R0065	BP206T	10	11	10	10	21	37	AT
237N1R0066	BP206T	10	13	10	9	21	41	AT
237N1R0067	BP206T	10	11	10	10	21	38	AT
237N1R0068	BP206T	10	6	10	6	16	26	AT
237N1R0069	BP206T	10	7	10	6	17	38	AT
237N1R0070	BP206T	10	14	10	11	23	42	AT
237N1R0071	BP206T	10	7	10	7	17	38	AT
237N1R0072	BP206T	10	9	10	9	19	41	AT
237N1R0073	BP206T	10	14	10	12	23	36	AT
237N1R0074	BP206T	10	6	10	8	17	42	AT
237N1R0075	BP206T	10	14	10	13	24	41	AT
237N1R0076	BP206T	10	13	10	11	22	40	AT
237N1R0077	BP206T	10	13	10	12	23	42	AT
237N1R0078	BP206T	10	8	10	11	20	38	AT
237N1R0079	BP206T	10	9	10	9	19	38	AT
237N1R0080	BP206T	10	9	10	11	20	40	AT
237N1R0081	BP206T	10	12	10	7	20	40	AT
237N1R0082	BP206T	10	9	10	9	19	33	AT
237N1R0083	BP206T	10	9	10	8	19	40	AT
237N1R0084	BP206T	10	9	10	10	20	27	AT
237N1R0085	BP206T	10	13	10	11	22	42	AT
237N1R0086	BP206T	10	11	10	10	21	40	AT
237N1R0087	BP206T	10	8	10	10	19	38	AT
237N1R0088	BP206T	10	9	10	7	18	39	AT
237N1R0089	BP206T	10	11	10	12	22	39	AT
237N1R0090	BP206T	10	5	10	9	17	38	AT
237N1R0091	BP206T	10	11	10	12	22	38	AT
237N1R0092	BP206T	10	13	10	11	22	41	AT
237N1R0093	BP206T	10	14	10	10	22	42	AT
237N1R0094	BP206T	10	13	10	11	22	42	AT
237N1R0096	BP206T	10	9	10	11	20	40	AT
237N1R0097	BP206T	10	11	10	11	21	40	AT
237N1R0098	BP206T	10	12	10	12	22	40	AT
237N1R0099	BP206T	0	0	0	0	0	0	AT
237N1R00A0	BP206T	10	10	10	9	20	40	AT
237N1R00A1	BP206T	10	4	10	7	16	32	AT
237N1R00A2	BP206T	10	10	10	10	20	42	AT
237N1R00A3	BP206T	10	10	10	10	20	38	AT
237N1R00A4	BP206T	10	9	10	12	21	36	AT

HTNO	SUBJECT	CM1	SE1	CM2	SE2	Total	NON UNI EXT	SUB_TYPE
237N1R00A5	BP206T	10	9	10	9	19	40	AT
237N1R00A6	BP206T	10	14	10	14	24	42	AT
237N1R00A7	BP206T	10	14	10	13	24	43	AT
237N1R00A8	BP206T	10	7	10	9	18	39	AT
237N1R00A9	BP206T	10	14	10	15	25	38	AT
237N1R00B0	BP206T	10	11	10	12	22	39	AT
237N1R0001	BP207P	5	8	5	9	14	0	L
237N1R0003	BP207P	5	8	5	9	14	0	L
237N1R0004	BP207P	5	8	5	9	14	0	L
237N1R0005	BP207P	5	9	5	9	14	0	L
237N1R0006	BP207P	5	9	5	9	14	0	L
237N1R0007	BP207P	5	9	5	10	15	0	L
237N1R0008	BP207P	5	9	5	10	15	0	L
237N1R0009	BP207P	5	9	5	10	15	0	L
237N1R0010	BP207P	5	9	5	10	15	0	L
237N1R0011	BP207P	5	9	5	9	14	0	L
237N1R0012	BP207P	5	5	5	8	12	0	L
237N1R0013	BP207P	5	9	5	8	14	0	L
237N1R0014	BP207P	5	0	5	9	10	0	L
237N1R0015	BP207P	5	9	5	8	14	0	L
237N1R0016	BP207P	5	9	5	9	14	0	L
237N1R0017	BP207P	5	9	5	9	14	0	L
237N1R0018	BP207P	5	9	5	10	15	0	L
237N1R0019	BP207P	5	9	5	10	15	0	L
237N1R0020	BP207P	5	0	5	8	9	0	L
237N1R0021	BP207P	5	9	5	9	14	0	L
237N1R0022	BP207P	5	9	5	9	14	0	L
237N1R0023	BP207P	5	9	5	9	14	0	L
237N1R0024	BP207P	5	9	5	9	14	0	L
237N1R0025	BP207P	5	9	5	9	14	0	L
237N1R0026	BP207P	5	9	5	9	14	0	L
237N1R0027	BP207P	5	10	5	9	15	0	L
237N1R0028	BP207P	5	9	5	9	14	0	L
237N1R0029	BP207P	5	8	5	9	14	0	L
237N1R0030	BP207P	5	8	5	10	14	0	L
237N1R0031	BP207P	5	8	5	10	14	0	L
237N1R0032	BP207P	5	8	5	9	14	0	L
237N1R0033	BP207P	5	9	5	9	14	0	L
237N1R0034	BP207P	5	9	5	9	14	0	L
237N1R0035	BP207P	5	9	5	9	14	0	L
237N1R0036	BP207P	5	8	5	9	14	0	L
237N1R0037	BP207P	5	9	5	9	14	0	L
237N1R0038	BP207P	5	9	5	9	14	0	L
237N1R0039	BP207P	5	8	5	10	14	0	L
237N1R0040	BP207P	5	9	5	9	14	0	L
237N1R0041	BP207P	5	9	5	10	15	0	L
237N1R0042	BP207P	5	8	5	9	14	0	L
237N1R0043	BP207P	5	9	5	10	15	0	L
237N1R0044	BP207P	5	9	5	9	14	0	L
237N1R0045	BP207P	5	9	5	8	14	0	L

HTNO	SUBJECT	CM1	SE1	CM2	SE2	Total	NON UNI EXT	SUB_TYPE
237N1R0046	BP207P	5	0	5	9	10	0	L
237N1R0047	BP207P	5	9	5	9	14	0	L
237N1R0048	BP207P	5	9	5	10	15	0	L
237N1R0049	BP207P	5	9	5	9	14	0	L
237N1R0050	BP207P	5	8	5	9	14	0	L
237N1R0051	BP207P	5	9	5	9	14	0	L
237N1R0052	BP207P	5	9	5	10	15	0	L
237N1R0053	BP207P	5	9	5	9	14	0	L
237N1R0054	BP207P	5	9	5	9	14	0	L
237N1R0055	BP207P	5	9	5	9	14	0	L
237N1R0056	BP207P	5	9	5	8	14	0	L
237N1R0057	BP207P	5	9	5	9	14	0	L
237N1R0058	BP207P	5	9	5	9	14	0	L
237N1R0059	BP207P	5	9	5	9	14	0	L
237N1R0060	BP207P	5	9	5	9	14	0	L
237N1R0061	BP207P	5	9	5	9	14	0	L
237N1R0062	BP207P	5	0	5	9	10	0	L
237N1R0063	BP207P	5	0	5	9	10	0	L
237N1R0064	BP207P	5	9	5	9	14	0	L
237N1R0065	BP207P	5	8	5	9	14	0	L
237N1R0066	BP207P	5	8	5	9	14	0	L
237N1R0067	BP207P	5	8	5	9	14	0	L
237N1R0068	BP207P	5	8	5	9	14	0	L
237N1R0069	BP207P	5	8	5	9	14	0	L
237N1R0070	BP207P	5	9	5	9	14	0	L
237N1R0071	BP207P	5	8	5	9	14	0	L
237N1R0072	BP207P	5	8	5	8	13	0	L
237N1R0073	BP207P	5	9	5	9	14	0	L
237N1R0074	BP207P	5	9	5	9	14	0	L
237N1R0075	BP207P	5	9	5	9	14	0	L
237N1R0076	BP207P	5	10	5	9	15	0	L
237N1R0077	BP207P	5	10	5	9	15	0	L
237N1R0078	BP207P	5	9	5	9	14	0	L
237N1R0079	BP207P	5	9	5	9	14	0	L
237N1R0080	BP207P	5	10	5	9	15	0	L
237N1R0081	BP207P	5	9	5	9	14	0	L
237N1R0082	BP207P	5	10	5	9	15	0	L
237N1R0083	BP207P	5	9	5	9	14	0	L
237N1R0084	BP207P	5	9	5	9	14	0	L
237N1R0085	BP207P	5	9	5	9	14	0	L
237N1R0086	BP207P	5	10	5	9	15	0	L
237N1R0087	BP207P	5	9	5	9	14	0	L
237N1R0088	BP207P	5	9	5	9	14	0	L
237N1R0089	BP207P	5	9	5	9	14	0	L
237N1R0090	BP207P	5	9	5	8	14	0	L
237N1R0091	BP207P	5	10	5	8	14	0	L
237N1R0092	BP207P	5	10	5	8	14	0	L
237N1R0093	BP207P	5	9	5	9	14	0	L
237N1R0094	BP207P	5	10	5	9	15	0	L
237N1R0096	BP207P	5	0	5	8	9	0	L

HTNO	SUBJECT	CM1	SE1	CM2	SE2	Total	NON UNI EXT	SUB_TYPE
237N1R0097	BP207P	5	10	5	8	14	0	L
237N1R0098	BP207P	5	10	5	9	15	0	L
237N1R0099	BP207P	0	0	0	0	0	0	L
237N1R00A0	BP207P	5	9	5	9	14	0	L
237N1R00A1	BP207P	5	8	5	9	14	0	L
237N1R00A2	BP207P	5	8	5	9	14	0	L
237N1R00A3	BP207P	5	9	5	9	14	0	L
237N1R00A4	BP207P	5	9	5	9	14	0	L
237N1R00A5	BP207P	5	9	5	9	14	0	L
237N1R00A6	BP207P	5	10	5	9	15	0	L
237N1R00A7	BP207P	5	10	5	9	15	0	L
237N1R00A8	BP207P	5	10	5	10	15	0	L
237N1R00A9	BP207P	5	10	5	9	15	0	L
237N1R00B0	BP207P	5	9	5	9	14	0	L
237N1R0001	BP208P	5	6	5	8	12	0	L
237N1R0003	BP208P	5	7	5	8	13	0	L
237N1R0004	BP208P	5	7	5	8	13	0	L
237N1R0005	BP208P	5	6	5	9	13	0	L
237N1R0006	BP208P	5	6	5	9	13	0	L
237N1R0007	BP208P	5	8	5	9	14	0	L
237N1R0008	BP208P	5	8	5	8	13	0	L
237N1R0009	BP208P	5	9	5	9	14	0	L
237N1R0010	BP208P	5	7	5	7	12	0	L
237N1R0011	BP208P	5	7	5	8	13	0	L
237N1R0012	BP208P	5	0	5	7	9	0	L
237N1R0013	BP208P	5	7	5	8	13	0	L
237N1R0014	BP208P	5	0	5	6	8	0	L
237N1R0015	BP208P	5	7	5	6	12	0	L
237N1R0016	BP208P	5	8	5	9	14	0	L
237N1R0017	BP208P	5	8	5	8	13	0	L
237N1R0018	BP208P	5	10	5	9	15	0	L
237N1R0019	BP208P	5	7	5	7	12	0	L
237N1R0020	BP208P	5	0	5	6	8	0	L
237N1R0021	BP208P	5	7	5	8	13	0	L
237N1R0022	BP208P	5	8	5	10	14	0	L
237N1R0023	BP208P	5	8	5	9	14	0	L
237N1R0024	BP208P	5	8	5	9	14	0	L
237N1R0025	BP208P	5	7	5	9	13	0	L
237N1R0026	BP208P	5	9	5	9	14	0	L
237N1R0027	BP208P	5	7	5	8	13	0	L
237N1R0028	BP208P	5	7	5	7	12	0	L
237N1R0029	BP208P	5	8	5	9	14	0	L
237N1R0030	BP208P	5	8	5	8	13	0	L
237N1R0031	BP208P	5	7	5	7	12	0	L
237N1R0032	BP208P	5	8	5	7	13	0	L
237N1R0033	BP208P	5	8	5	9	14	0	L
237N1R0034	BP208P	5	7	5	7	12	0	L
237N1R0035	BP208P	5	8	5	8	13	0	L
237N1R0036	BP208P	5	7	5	7	12	0	L
237N1R0037	BP208P	5	9	5	9	14	0	L

HTNO	SUBJECT	CM1	SE1	CM2	SE2	Total	NON UNI EXT	SUB_TYPE
237N1R0038	BP208P	5	7	5	9	13	0	L
237N1R0039	BP208P	5	7	5	7	12	0	L
237N1R0040	BP208P	5	7	5	0	9	0	L
237N1R0041	BP208P	5	7	5	9	13	0	L
237N1R0042	BP208P	5	6	5	9	13	0	L
237N1R0043	BP208P	5	8	5	7	13	0	L
237N1R0044	BP208P	5	8	5	9	14	0	L
237N1R0045	BP208P	5	7	5	9	13	0	L
237N1R0046	BP208P	5	0	5	7	9	0	L
237N1R0047	BP208P	5	8	5	9	14	0	L
237N1R0048	BP208P	5	8	5	9	14	0	L
237N1R0049	BP208P	5	7	5	9	13	0	L
237N1R0050	BP208P	5	7	5	8	13	0	L
237N1R0051	BP208P	5	8	5	9	14	0	L
237N1R0052	BP208P	5	7	5	9	13	0	L
237N1R0053	BP208P	5	7	5	7	12	0	L
237N1R0054	BP208P	5	9	5	9	14	0	L
237N1R0055	BP208P	5	9	5	8	14	0	L
237N1R0056	BP208P	5	7	5	7	12	0	L
237N1R0057	BP208P	5	7	5	8	13	0	L
237N1R0058	BP208P	5	8	5	8	13	0	L
237N1R0059	BP208P	5	7	5	7	12	0	L
237N1R0060	BP208P	5	8	5	7	13	0	L
237N1R0061	BP208P	5	7	5	7	12	0	L
237N1R0062	BP208P	5	0	5	7	9	0	L
237N1R0063	BP208P	5	0	5	6	8	0	L
237N1R0064	BP208P	5	8	5	7	13	0	L
237N1R0065	BP208P	5	7	5	8	13	0	L
237N1R0066	BP208P	5	9	5	8	14	0	L
237N1R0067	BP208P	5	8	5	7	13	0	L
237N1R0068	BP208P	5	8	5	7	13	0	L
237N1R0069	BP208P	5	7	5	7	12	0	L
237N1R0070	BP208P	5	8	5	9	14	0	L
237N1R0071	BP208P	5	7	5	7	12	0	L
237N1R0072	BP208P	5	8	5	8	13	0	L
237N1R0073	BP208P	5	9	5	8	14	0	L
237N1R0074	BP208P	5	7	5	6	12	0	L
237N1R0075	BP208P	5	9	5	9	14	0	L
237N1R0076	BP208P	5	9	5	9	14	0	L
237N1R0077	BP208P	5	9	5	9	14	0	L
237N1R0078	BP208P	5	7	5	7	12	0	L
237N1R0079	BP208P	5	8	5	8	13	0	L
237N1R0080	BP208P	5	8	5	8	13	0	L
237N1R0081	BP208P	5	8	5	8	13	0	L
237N1R0082	BP208P	5	9	5	9	14	0	L
237N1R0083	BP208P	5	8	5	8	13	0	L
237N1R0084	BP208P	5	7	5	8	13	0	L
237N1R0085	BP208P	5	8	5	10	14	0	L
237N1R0086	BP208P	5	8	5	8	13	0	L
237N1R0087	BP208P	5	8	5	8	13	0	L

HTNO	SUBJECT	CM1	SE1	CM2	SE2	Total	NON UNI EXT	SUB_TYPE
237N1R0088	BP208P	5	7	5	8	13	0	L
237N1R0089	BP208P	5	6	5	9	13	0	L
237N1R0090	BP208P	5	5	5	6	11	0	L
237N1R0091	BP208P	5	8	5	9	14	0	L
237N1R0092	BP208P	5	9	5	9	14	0	L
237N1R0093	BP208P	5	8	5	7	13	0	L
237N1R0094	BP208P	5	7	5	9	13	0	L
237N1R0096	BP208P	5	0	5	9	10	0	L
237N1R0097	BP208P	5	8	5	9	14	0	L
237N1R0098	BP208P	5	8	5	10	14	0	L
237N1R0099	BP208P	0	0	0	0	0	0	L
237N1R00A0	BP208P	5	6	5	7	12	0	L
237N1R00A1	BP208P	5	5	5	6	11	0	L
237N1R00A2	BP208P	5	7	5	9	13	0	L
237N1R00A3	BP208P	5	7	5	7	12	0	L
237N1R00A4	BP208P	5	7	5	6	12	0	L
237N1R00A5	BP208P	5	6	5	8	12	0	L
237N1R00A6	BP208P	5	7	5	8	13	0	L
237N1R00A7	BP208P	5	8	5	8	13	0	L
237N1R00A8	BP208P	5	0	5	6	8	0	L
237N1R00A9	BP208P	5	7	5	9	13	0	L
237N1R00B0	BP208P	5	7	5	9	13	0	L
237N1R0001	BP209P	5	8	5	7	13	0	L
237N1R0003	BP209P	5	7	5	8	13	0	L
237N1R0004	BP209P	5	7	5	8	13	0	L
237N1R0005	BP209P	5	7	5	7	12	0	L
237N1R0006	BP209P	5	8	5	8	13	0	L
237N1R0007	BP209P	5	10	5	9	15	0	L
237N1R0008	BP209P	5	10	5	8	14	0	L
237N1R0009	BP209P	5	10	5	9	15	0	L
237N1R0010	BP209P	5	8	5	8	13	0	L
237N1R0011	BP209P	5	7	5	8	13	0	L
237N1R0012	BP209P	5	7	5	7	12	0	L
237N1R0013	BP209P	5	8	5	8	13	0	L
237N1R0014	BP209P	5	6	5	8	12	0	L
237N1R0015	BP209P	5	7	5	8	13	0	L
237N1R0016	BP209P	5	9	5	8	14	0	L
237N1R0017	BP209P	5	7	5	8	13	0	L
237N1R0018	BP209P	5	8	5	8	13	0	L
237N1R0019	BP209P	5	0	5	8	9	0	L
237N1R0020	BP209P	5	6	5	8	12	0	L
237N1R0021	BP209P	5	7	5	7	12	0	L
237N1R0022	BP209P	5	7	5	8	13	0	L
237N1R0023	BP209P	5	8	5	9	14	0	L
237N1R0024	BP209P	5	8	5	8	13	0	L
237N1R0025	BP209P	5	7	5	8	13	0	L
237N1R0026	BP209P	5	7	5	8	13	0	L
237N1R0027	BP209P	5	7	5	9	13	0	L
237N1R0028	BP209P	5	6	5	7	12	0	L
237N1R0029	BP209P	5	7	5	8	13	0	L

HTNO	SUBJECT	CM1	SE1	CM2	SE2	Total	NON UNI EXT	SUB_TYPE
237N1R0030	BP209P	5	7	5	8	13	0	L
237N1R0031	BP209P	5	0	5	7	9	0	L
237N1R0032	BP209P	5	7	5	7	12	0	L
237N1R0033	BP209P	5	9	5	8	14	0	L
237N1R0034	BP209P	5	7	5	8	13	0	L
237N1R0035	BP209P	5	8	5	8	13	0	L
237N1R0036	BP209P	5	7	5	7	12	0	L
237N1R0037	BP209P	5	7	5	8	13	0	L
237N1R0038	BP209P	5	7	5	8	13	0	L
237N1R0039	BP209P	5	7	5	7	12	0	L
237N1R0040	BP209P	5	7	5	7	12	0	L
237N1R0041	BP209P	5	8	5	8	13	0	L
237N1R0042	BP209P	5	7	5	7	12	0	L
237N1R0043	BP209P	5	7	5	7	12	0	L
237N1R0044	BP209P	5	8	5	9	14	0	L
237N1R0045	BP209P	5	0	5	8	9	0	L
237N1R0046	BP209P	5	7	5	8	13	0	L
237N1R0047	BP209P	5	6	5	8	12	0	L
237N1R0048	BP209P	5	7	5	7	12	0	L
237N1R0049	BP209P	5	7	5	7	12	0	L
237N1R0050	BP209P	5	8	5	7	13	0	L
237N1R0051	BP209P	5	7	5	8	13	0	L
237N1R0052	BP209P	5	8	5	8	13	0	L
237N1R0053	BP209P	5	8	5	6	12	0	L
237N1R0054	BP209P	5	9	5	8	14	0	L
237N1R0055	BP209P	5	8	5	7	13	0	L
237N1R0056	BP209P	5	8	5	8	13	0	L
237N1R0057	BP209P	5	8	5	8	13	0	L
237N1R0058	BP209P	5	9	5	9	14	0	L
237N1R0059	BP209P	5	7	5	8	13	0	L
237N1R0060	BP209P	5	8	5	7	13	0	L
237N1R0061	BP209P	5	9	5	8	14	0	L
237N1R0062	BP209P	5	0	5	8	9	0	L
237N1R0063	BP209P	5	0	5	8	9	0	L
237N1R0064	BP209P	5	0	5	8	9	0	L
237N1R0065	BP209P	5	7	5	8	13	0	L
237N1R0066	BP209P	5	0	5	6	8	0	L
237N1R0067	BP209P	5	8	5	7	13	0	L
237N1R0068	BP209P	5	7	5	7	12	0	L
237N1R0069	BP209P	5	0	5	7	9	0	L
237N1R0070	BP209P	5	7	5	9	13	0	L
237N1R0071	BP209P	5	8	5	8	13	0	L
237N1R0072	BP209P	5	9	5	8	14	0	L
237N1R0073	BP209P	5	9	5	8	14	0	L
237N1R0074	BP209P	5	8	5	7	13	0	L
237N1R0075	BP209P	5	8	5	8	13	0	L
237N1R0076	BP209P	5	8	5	9	14	0	L
237N1R0077	BP209P	5	9	5	9	14	0	L
237N1R0078	BP209P	5	8	5	9	14	0	L
237N1R0079	BP209P	5	8	5	7	13	0	L

HTNO	SUBJECT	CM1	SE1	CM2	SE2	Total	NON UNI EXT	SUB_TYPE
237N1R0080	BP209P	5	8	5	8	13	0	L
237N1R0081	BP209P	5	9	5	8	14	0	L
237N1R0082	BP209P	5	6	5	8	12	0	L
237N1R0083	BP209P	5	8	5	8	13	0	L
237N1R0084	BP209P	5	8	5	8	13	0	L
237N1R0085	BP209P	5	8	5	9	14	0	L
237N1R0086	BP209P	5	9	5	8	14	0	L
237N1R0087	BP209P	5	7	5	8	13	0	L
237N1R0088	BP209P	5	7	5	7	12	0	L
237N1R0089	BP209P	5	8	5	8	13	0	L
237N1R0090	BP209P	5	7	5	8	13	0	L
237N1R0091	BP209P	5	9	5	9	14	0	L
237N1R0092	BP209P	5	9	5	8	14	0	L
237N1R0093	BP209P	5	9	5	8	14	0	L
237N1R0094	BP209P	5	8	5	8	13	0	L
237N1R0096	BP209P	5	0	5	7	9	0	L
237N1R0097	BP209P	5	9	5	8	14	0	L
237N1R0098	BP209P	5	9	5	9	14	0	L
237N1R0099	BP209P	0	0	0	0	0	0	L
237N1R00A0	BP209P	5	9	5	9	14	0	L
237N1R00A1	BP209P	5	7	5	6	12	0	L
237N1R00A2	BP209P	5	8	5	8	13	0	L
237N1R00A3	BP209P	5	8	5	8	13	0	L
237N1R00A4	BP209P	5	8	5	7	13	0	L
237N1R00A5	BP209P	5	8	5	8	13	0	L
237N1R00A6	BP209P	5	9	5	7	13	0	L
237N1R00A7	BP209P	5	8	5	8	13	0	L
237N1R00A8	BP209P	5	7	5	7	12	0	L
237N1R00A9	BP209P	5	9	5	8	14	0	L
237N1R00B0	BP209P	5	8	5	8	13	0	L
237N1R0001	BP210P	5	5	5	4	10	12	AP
237N1R0003	BP210P	5	5	5	5	10	14	AP
237N1R0004	BP210P	5	4	5	5	10	15	AP
237N1R0005	BP210P	5	5	5	5	10	14	AP
237N1R0006	BP210P	5	5	5	5	10	14	AP
237N1R0007	BP210P	5	5	5	5	10	15	AP
237N1R0008	BP210P	5	5	5	5	10	15	AP
237N1R0009	BP210P	5	5	5	5	10	15	AP
237N1R0010	BP210P	5	3	5	4	9	14	AP
237N1R0011	BP210P	5	3	5	5	9	14	AP
237N1R0012	BP210P	5	2	5	4	8	14	AP
237N1R0013	BP210P	5	3	5	5	9	13	AP
237N1R0014	BP210P	5	2	5	4	8	12	AP
237N1R0015	BP210P	5	2	5	4	8	14	AP
237N1R0016	BP210P	5	5	5	5	10	15	AP
237N1R0017	BP210P	5	4	5	5	10	13	AP
237N1R0018	BP210P	5	5	5	4	10	15	AP
237N1R0019	BP210P	5	4	5	4	9	14	AP
237N1R0020	BP210P	5	0	5	4	7	0	AP
237N1R0021	BP210P	5	4	5	4	9	14	AP

HTNO	SUBJECT	CM1	SE1	CM2	SE2	Total	NON UNI EXT	SUB_TYPE
237N1R0022	BP210P	5	5	5	4	10	15	AP
237N1R0023	BP210P	5	5	5	4	10	15	AP
237N1R0024	BP210P	5	3	5	5	9	14	AP
237N1R0025	BP210P	5	5	5	4	10	15	AP
237N1R0026	BP210P	5	5	5	4	10	15	AP
237N1R0027	BP210P	5	5	5	5	10	14	AP
237N1R0028	BP210P	5	4	5	4	9	15	AP
237N1R0029	BP210P	5	4	5	3	9	13	AP
237N1R0030	BP210P	5	4	5	4	9	13	AP
237N1R0031	BP210P	5	3	5	4	9	15	AP
237N1R0032	BP210P	5	5	5	4	10	14	AP
237N1R0033	BP210P	5	5	5	5	10	0	AP
237N1R0034	BP210P	5	5	5	5	10	14	AP
237N1R0035	BP210P	5	5	5	4	10	13	AP
237N1R0036	BP210P	5	5	5	4	10	13	AP
237N1R0037	BP210P	5	5	5	5	10	15	AP
237N1R0038	BP210P	5	4	5	3	9	15	AP
237N1R0039	BP210P	5	4	5	4	9	13	AP
237N1R0040	BP210P	5	3	5	4	9	13	AP
237N1R0041	BP210P	5	5	5	4	10	13	AP
237N1R0042	BP210P	5	5	5	4	10	11	AP
237N1R0043	BP210P	5	4	5	4	9	14	AP
237N1R0044	BP210P	5	4	5	5	10	14	AP
237N1R0045	BP210P	5	4	5	4	9	13	AP
237N1R0046	BP210P	5	4	5	4	9	14	AP
237N1R0047	BP210P	5	5	5	3	9	14	AP
237N1R0048	BP210P	5	5	5	4	10	13	AP
237N1R0049	BP210P	5	4	5	3	9	12	AP
237N1R0050	BP210P	5	5	5	4	10	12	AP
237N1R0051	BP210P	5	4	5	4	9	12	AP
237N1R0052	BP210P	5	4	5	4	9	14	AP
237N1R0053	BP210P	5	3	5	4	9	13	AP
237N1R0054	BP210P	5	5	5	4	10	15	AP
237N1R0055	BP210P	5	5	5	4	10	15	AP
237N1R0056	BP210P	5	5	5	5	10	15	AP
237N1R0057	BP210P	5	4	5	4	9	15	AP
237N1R0058	BP210P	5	5	5	5	10	14	AP
237N1R0059	BP210P	5	4	5	4	9	15	AP
237N1R0060	BP210P	5	4	5	4	9	13	AP
237N1R0061	BP210P	5	4	5	4	9	13	AP
237N1R0062	BP210P	5	0	5	3	7	12	AP
237N1R0063	BP210P	5	4	5	3	9	10	AP
237N1R0064	BP210P	5	4	5	4	9	15	AP
237N1R0065	BP210P	5	4	5	3	9	12	AP
237N1R0066	BP210P	5	4	5	5	10	13	AP
237N1R0067	BP210P	5	4	5	3	9	13	AP
237N1R0068	BP210P	5	5	5	4	10	10	AP
237N1R0069	BP210P	5	4	5	4	9	13	AP
237N1R0070	BP210P	5	5	5	4	10	15	AP
237N1R0071	BP210P	5	5	5	4	10	15	AP

HTNO	SUBJECT	CM1	SE1	CM2	SE2	Total	NON UNI EXT	SUB_TYPE
237N1R0072	BP210P	5	4	5	4	9	13	AP
237N1R0073	BP210P	5	5	5	5	10	14	AP
237N1R0074	BP210P	5	4	5	4	9	12	AP
237N1R0075	BP210P	5	5	5	5	10	15	AP
237N1R0076	BP210P	5	5	5	5	10	15	AP
237N1R0077	BP210P	5	5	5	5	10	14	AP
237N1R0078	BP210P	5	5	5	4	10	13	AP
237N1R0079	BP210P	5	4	5	3	9	13	AP
237N1R0080	BP210P	5	5	5	4	10	14	AP
237N1R0081	BP210P	5	5	5	4	10	13	AP
237N1R0082	BP210P	5	5	5	5	10	15	AP
237N1R0083	BP210P	5	5	5	5	10	13	AP
237N1R0084	BP210P	5	5	5	4	10	14	AP
237N1R0085	BP210P	5	5	5	5	10	12	AP
237N1R0086	BP210P	5	5	5	4	10	14	AP
237N1R0087	BP210P	5	5	5	3	9	14	AP
237N1R0088	BP210P	5	5	5	3	9	13	AP
237N1R0089	BP210P	5	5	5	4	10	14	AP
237N1R0090	BP210P	5	5	5	4	10	15	AP
237N1R0091	BP210P	5	5	5	5	10	15	AP
237N1R0092	BP210P	5	5	5	4	10	15	AP
237N1R0093	BP210P	5	5	5	4	10	14	AP
237N1R0094	BP210P	5	5	5	5	10	14	AP
237N1R0096	BP210P	5	5	5	5	10	15	AP
237N1R0097	BP210P	5	5	5	4	10	14	AP
237N1R0098	BP210P	5	5	5	5	10	15	AP
237N1R0099	BP210P	0	0	0	0	0	0	AP
237N1R00A0	BP210P	5	5	5	4	10	14	AP
237N1R00A1	BP210P	5	4	5	4	9	14	AP
237N1R00A2	BP210P	5	5	5	4	10	15	AP
237N1R00A3	BP210P	5	5	5	4	10	13	AP
237N1R00A4	BP210P	5	5	5	4	10	12	AP
237N1R00A5	BP210P	5	5	5	5	10	14	AP
237N1R00A6	BP210P	5	5	5	5	10	15	AP
237N1R00A7	BP210P	5	5	5	5	10	15	AP
237N1R00A8	BP210P	5	5	5	4	10	15	AP
237N1R00A9	BP210P	5	5	5	5	10	15	AP
237N1R00B0	BP210P	5	5	5	4	10	14	AP

Verified by: PRINCIPAL

Controller of Examinations

Date:25-09-2024