

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(MID SEMESTER EXAMINATION)

CLASS: IMSC
BRANCH: CHEMISTRY

SEMESTER: V
SESSION: MO/2022

SUBJECT: CH302 ORGANIC CHEMISTRY-IV

TIME: 2 HOURS

FULL MARKS: 25

INSTRUCTIONS:

1. The total marks of the questions are 25.
 2. Candidates attempt for all 25 marks.
 3. Before attempting the question paper, be sure that you have got the correct question paper.
 4. The missing data, if any, may be assumed suitably.
 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
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		CO	BL
Q1 (a)	Draw the structure and write the names of the nucleosides.	[2] CO1	1
Q1 (b)	Describe the synthesis of adenine.	[3] CO2	3
Q2	What is an antipyretic drug? Discuss with classification and draw example structures in a different classification.	[5] CO1	1
Q3	Draw a synthetic scheme with a mechanism for Paracetamol.	[5] CO2	3
Q4 (a)	What is pI? What is the significance of pI?	[2] CO1	1
Q4 (b)	Describe the Gabriel phthalimide synthesis of amino acids. What are the advantages of the process?	[3] CO1	2
Q5 (a)	Describe the Dakin-West reaction with mechanism.	[2] CO2	2
Q5 (b)	Write short note on chemical detection of amine terminal or carboxylic acid terminal.	[3] CO2	3

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