QP Code: D133966	Total Pages:1	Name:
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THIRD SEMESTER UG DEGREE EXAMINATION, NOVEMBER 2025

(CUFYUGP)

CHE3MN 202-BIO ORGANIC CHEMISTRY

2024 Admission onwards

Maximum Time :2 Hours | **Maximum Marks :70**

Section A

All Questions can be answered. Each Question carries 3 marks (Ceiling : 24 Marks)

1	Why fluoroacetic acid is stronger than chloroacetic acid?
2	Distinguish between electrophiles and nucleophiles.
3	Explain electromeric effect with two examples.
4	Write two examples of rearrangement reactions.
5	Compare and explain the difference in pKb values of ammonia, aniline and methyl amine.
6	What is Hoffman bromamide reaction?
7	Write any three reactions of benzene diazonium chloride.
8	Explain nucleophilic addition with three reactions of formaldehyde.
9	Distinguish between globular and fibrous proteins.
10	How amino acids are classified?

Section B

All Questions can be answered. Each Question carries 6 marks (Ceiling : 36 Marks)

11	Draw mesomeric structures of benzaldehyde and nitrobenzene.
12	Compare the stability of ethyl carbocation and tertiary butyl carbocations.
13	Write a note on formation, stability and reactions of carbanion.
14	Describe any two tests to distinguish glucose.
15	Explain the preparation of glucose from starch.
16	Draw the structure of a dipeptide and explain the terms peptide bond, polypeptide and proteins.
17	Describe the double helical structure of DNA.
18	How lipids are classified?

Section C

Answer any ONE .Each Question carries 10 marks (1x10=10 Marks)

19	Write two methods each for the preparation of aldehydes, ketones and carboxylic acid.
20	Explain the classification of carbohydrates.