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**GANDHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, ODISHA, GUNUPUR
(GIET UNIVERSITY)**

B. Pharm. (Second Semester - Regular) Examinations, August - 2026

BP202T– PHARMACEUTICAL ORGANIC CHEMISTRY

Time: 3 hrs

Maximum: 75 Marks

Answer ALL questions

(The figures in the right hand margin indicate marks)

PART – A

(10 x 2 = 20 Marks)

Q.1. Answer **ALL** the questions

- Distinguish saturated and unsaturated compound.
- Write about Electrophiles.
- Give the IUPAC name of propylene glycol.
- Describe the fermentation of sugars.
- Define Stereochemistry.
- State the composition of Fehling's reagent.
- Define Markovnikov rule.
- Give the structure and use of Amphetamine.
- Generalize aliphatic amines and give example.
- Define structural isomerism.

PART – B

(2 x 10 = 20 Marks)

Q.No. 2. Answer **ANY TWO** questions (Long Answer Question)

- Elaborate in detail about inductive effect and qualitative tests for carboxylic Acids.
- Give the structure and uses of (i) Chloral hydrate, (ii) Hexamine, (iii) Cinnamaldehyde (iv) Vanillin and (v) acetone.
- Summarize the factors affecting SN1 and SN2 reaction.

PART – C

(7 x 5 = 35 Marks)

Q. No.3. Answer **ANY SEVEN** questions (Short Answer Question)

- Explain about sp^2 hybridization of alkenes.
- Write a note on anti-markonikov rule.
- Outline the mechanism in electromeric effect.
- Distinguish the differences between primary, secondary and tertiary alcohols.
- Outline in detail on Aldol condensation.
- Explain Perkin condensation.
- Describe in detail about the rearrangement of carbocations and order of reactivity of alkyl halides.
- Explain any three addition reaction of conjugated dienes.
- Give the structure and uses of Salicylic acid, Methyl salicylate and Acetyl salicylic acid.

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