

B.Sc. Semester - 5 (Remedial) (NEP-2020) Examination**March/April-2026****CHE: Pharmaceutical Chemistry (Skill Enhancement Course)****Time: 1:00 Hours****Marks:25****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Que.1 Answer the following questions (any two) (10)
- a) Explain the following terms:
 - 1) Drug
 - 2) Medicine
 - 3) Binders
 - 4) Generic name of drug
 - 5) Fillers
 - b) Explain the following terms(classes of drugs) with suitable example of subclass and name of drug.
 - 1) Antibiotic
 - 2) Pharmacodynamic agents
 - 3) Chemotherapeutic agents
 - c) What are antibacterials? Give synthesis of Sulfacetamide. Also identify the active chemical structural unit in it.
- Que.2 Answer the following questions (any two) (10)
- a) What is API? Explain generic and OTC drugs and its socio-economic importance.
 - b) What is retrosynthesis? Explain synthon and synthetic equivalent with two examples.
 - c) What are analgesic and antipyretic drugs? Give synthesis of paracetamol.
- Que.3 Answer the following questions (any one) (05)
- a) Explain the following terms:
 - 1) ADME
 - 2) Antigen
 - 3) Antibody
 - 4) Agonist
 - 5) Antagonist
 - b) Explain types of synthesis and give criterion of good synthesis.
