

Bachelor Level/B.Pharm/First Year/TU/IOM Time: 3 hours
 Pharmaceutical Chemistry-403A Th. (New Course) Full Marks: 80

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.
 Attempt all the questions.

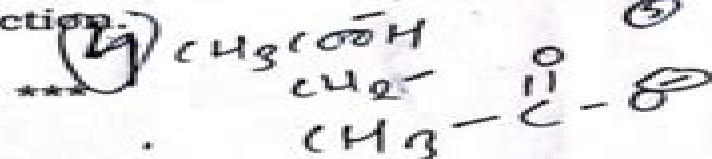
1. What is the importance of limit test and assay determination in pharmaceuticals? How is the limit test of sulphate performed? (5) 4+6=10
2. What is the basic objective of replacement therapy? Explain the method of preparation, test of purity, uses and assay of sodium lactate. (5) 3+7=10
3. Explain the method for conducting assay of: Na₂ 2x5=10
 - a. Potassium permanganate
 - b. Ferric ammonium citrate
4. Define topical agents. Write the applications of protectives, astringents and antimicrobial agents with two suitable examples of each. (5) 2+8=10
5. Explain why aqueous base brings substitution reaction and alcoholic base brings elimination reaction. Explain the mechanism of E1, E2 and E1CB reaction. (5) 4+6=10
6. Give the mechanism for: (5) 2x5=10
 - a. Reaction of ethyl acetate with the mixture of ethanol and sodium ethoxide
 - b. Reaction of two molecules of acetaldehyde in presence of sodium hydroxide
7. Define the following with suitable examples: (5) 4+3+3=10
 - a. Conformational isomers
 - b. Meso compounds
 - c. Optical activity
8. What is meant by electrophilic substitution reaction? Explain the effect of electron releasing and withdrawing groups in electrophilic substitution reaction. Give mechanism for any one of the electrophilic substitution reaction. (5) 2+4+4=10

CO₂Na

C₆H₅

NH₂⁺ NH
 NH₂⁺
 1020

H-
 Zn-S



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