

Paper Id:

154334

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B. PHARM.**(SEM-III) THEORY EXAMINATION 2019-20****PHARMACEUTICAL CHEMISTRY – III (ORGANIC CHEMISTRY – II)****Time: 3 Hours****Total Marks: 100****Note:** Attempt all Sections. If require any missing data; then choose suitably.**SECTION A****1. Attempt all questions in brief. 2 x 10 = 20**

a.	Write the structure of Phenanthrene and its uses.
b.	Write any two reactions of α , β -unsaturated carbonyl compound.
c.	Write the structure of Pyrrole and mention any one drug constituting the pyrrole entity with its uses.
d.	Write the structure of Indole and its applications.
e.	Write the synthetic utility of Beckmann's rearrangement.
f.	Highlight the synthetic application of Michael addition.
g.	Write any one identification test of Starch.
h.	Write any one structure of a disaccharide and any one of its identification tests.
i.	Define Polymerization.
j.	Write the structure of any two nucleic acids with its physiological importance.

SECTION B**2. Attempt any three of the following: 10x3=30**

a.	Write briefly on cycloaddition reaction
b.	Discuss in short the general nomenclature of heterocyclic compounds with examples.
c.	Discuss reaction and mechanism of Mannich reaction.
d.	Write short note on Polysaccharides.
e.	Give any two examples of polymers with its utility.

SECTION C**3. Attempt any one part of the following: 10x1=10**

a.	Write a detailed note on method of preparation and reactions of Polyaromatic nuclear hydrocarbons.
b.	Elaborate on the synthetic importance of esters of acetoacetic acid and malonic acid.

4. Attempt any one part of the following: 10x1=10

a.	Write a detailed note on the method of preparation, properties and pharmaceutical importance of Pyridine.
b.	Write a detailed note on the method of preparation, properties and pharmaceutical significance of Pyrazole.

5. Attempt any one part of the following: 10x1=10

a.	Discuss the reaction, mechanism and synthetic application of Oppeneaur oxidation.
b.	Discuss the synthetic utility of Reformatsky Reaction and Michael addition.

6. Attempt any one part of the following: 10x1=10

a.	Elaborate on Chemistry of Monosaccharides with emphasis on reactions of glucose and fructose.
b.	Elaborate on the structural elucidation and identification tests of Sucrose.

7. Attempt any one part of the following: 10x1=10

a.	Write a detailed review on the classification of amino acids and the structure of nucleic acids.
b.	Discuss the chemistry and identification tests of Oil, fats and Waxes.