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**BPHARM**  
**(SEM III) THEORY EXAMINATION 2021-22**  
**PHARMACEUTICAL ORGANIC CHEMISTRY II**

**Time: 3 Hours****Total Marks: 75****Notes:**

- Attempt all Sections and Assume any missing data.
- Appropriate marks are allotted to each question, answer accordingly.

**SECTION-A**

<b>Q.1</b>	Attempt All of the following Questions in brief	Marks(10X2=20)
a.	Give the structure and uses of Saccharin.	
b.	Give molecular orbital picture of benzene.	
c.	Explain Saponification value	
d.	Give stability order of cycloalkanes.	
e.	What are the uses of triphenylmethane?	
f.	Mention uses of Naphthalene.	
g.	Define cycloalkanes.	
h.	What is Friedal craft acylation?	
i.	What is Reichert Meissl (RM)	
j.	Draw any four aromatic structures.	

**SECTION-B**

<b>Q.2</b>	Attempt ANY TWO of the following Questions	Marks(2X10=20)
a.	Discuss in detail Baeyer's strain theory and its limitation.	
b.	Give analytical, synthetic and other evidences in derivation of structure of benzene.	
c.	Give structures, synthesis, reactions and uses of Phenanthrene derivatives.	

**SECTION-C**

<b>Q.3</b>	Attempt ANY FIVE following Question	Marks (5X7=35)
a.	Give structure, preparation and properties of benzoic acid.	
b.	Write a note on theory of strainless ring.	
c.	Give the structure and uses of BHC and Chloramine T.	
d.	Explain Friedel Crafts for alkylation with suitable examples.	
e.	What is principle and procedure involved in estimation of Iodine value and acetyl value of fat/oil?	
f.	Give the process involved in the synthesis of Triphenylmethane and their derivatives.	
g.	Explain Coulson and Moffitt's modification theory of cycloalkanes. Give reactions of cyclopropane and cyclobutane.	