

PC2

7th Sem

Seat Number

--	--	--	--	--	--



11-18

लक्ष - 007

BP 301 T

Pharmaceutical Organic Chemistry – II (731101)

P. Pages : 2

Time : Three Hours

Max. Marks : 75

Instructions to Candidates :

1. Do not write anything on question paper except Seat No.
2. Graph or diagram should be drawn with the black ink pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. All questions are compulsory.
5. Draw neat & labelled structures.

1. A) Choose the correct answer of the following.

1) IUPAC Name of phenol is ----

- | | |
|------------------------|-------------------|
| a) 1 – Hydroxy benzene | b) Benzenol |
| c) Benzene – 1 – al | d) Phenyl alcohol |

2) Electron releasing groups attached to benzene are ----

- Ring deactivators and meta directors
- Ring activator and meta directors
- Ring activator and ortho, para director
- None of the above.

3) Following is the incorrect name of BHC organochlorine insecticide.

- HCH
- Benzene hexachloride
- 1,2,3,4,5,6 hexachlorocyclohexane
- Hexachlorocyclohexane.

4) The degree of unsaturation of lipids can be measured as ----

- | | |
|-----------------|-------------------------|
| a) RM value | b) Saponification value |
| c) Iodine value | d) Polenske value |

5) Shelf life of oils is increases by ----

- | | |
|-------------------|---------------|
| a) Hydrogenation | b) Hydrolysis |
| c) Saponification | d) Hydration |

6) All the aromatic compounds show high ----

- | | |
|--------------------------|-----------------------|
| a) Delocalization energy | b) Resonance energy |
| c) Both a & b | d) None of the above. |

7) Methoxychlor is synthesized from ----

- | | |
|----------------------------|------------------------------------|
| a) Chlorobenzene & Chloral | b) Methoxybenzene & chloral |
| c) Benzene & Chloral | d) Methoxy Chlorobenzene & chloral |

8) Which of the following is more basic than Aniline

- | | |
|----------------------|----------------------|
| a) Benzyl amine | b) P-nitroaniline |
| c) Triphenyl aniline | d) Diphenyl aniline. |

लक्ष - 007

- 9) Azulene is a ----
 a) Aromatic compound b) None aromatic compound
 c) Cyclic & planar molecule d) Both & c
- 10) Diphenyl methane on oxidation gives ----
 a) Benzene b) Benzophenone
 c) Benzoquinone d) None of these.

B) Write the answer of the followings.

- 1) Give the uses of Phenols & Naphthols.
- 2) How DDT differ from Methoxychlor?
- 3) Why cyclobutadiene does not follow the Huckel's rule?
- 4) What will be the acid value of pure oil/fat sample?
- 5) Draw the structure of
 i) Naphthalene -1-Sulfonic acid ii) Phthalic acid.

2. Answer **any two** of the followings.

- 1) Discuss various reactions of benzene.
- 2) Explain effect of substituents on basicity of aromatic amines. Add a note on acidity of phenols.
- 3) Comment on Baeyer's strain theory along with it's limitations & write various reactions of cyclopropane & Cyclobutane.

3. Answer **any seven** out of followings.

- 1) Comment on Huckel's rule
- 2) Discuss different tests used to check purity of fats & oils.
- 3) Write Haworth synthesis of naphthalene
- 4) Give the various reactions of benzoic acid.
- 5) Comments on diazonium salts.
- 6) Give the method of preparation & reactions of Anthracene.
- 7) Discuss Sachse-Mohr's theory.
- 8) Give the method of preparation & reactions of phenol.
- 9) Draw the structure & give IUPAC nomenclature to -
 i) O-toluidine ii) O-Phenylenediamine
 iii) O-Cresol iv) Salicylic acid
 v) Cinnamic acid
