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Total No. of Questions : 8] *[Total No. of Printed Pages : 2*

Roll No .....

PY-301-CBCS

B.Pharmacy, III Semester (Non-PCI Scheme)

Examination, June 2020

Choice Based Credit System (CBCS)

Pharmaceutical Chemistry - III

(Organic Chemistry - II)

Time : Three Hours

Maximum Marks : 75

Note: i) Attempt any five questions.
ii) All questions carry equal marks.

1. a) What is Huckel rule? Discuss the evidence in the derivation of structure of benzene with suitable example.
   b) Write mechanism and limitation of friedel craft alkylation and acylation.

2. Why aniline weaker base than ammonia? Explain the effect of substituent on basicity of aromatic amines.

3. Give general method of preparation and chemical reaction of phenols. Explain the effect of substituent on acidity of phenols.

4. Discuss the hydrolysis, Saponification, rancidity and drying of oils with suitable example.

5. Write reactions of cyclopropane and cyclobutane. Explain Baeyer's strain theory and its limitation.

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6. Give synthesis, reactions and medicinal uses of naphthalene and phenanthrene.

7. What do you mean by analytical constants? Write principle and procedure involved in the determination of acid value, Saponification, iodine and ester value.

8. Write short note on any three of the following.
   a) Synthetic uses of aryl diazonium salt.
   b) Theory of strainless rings.
   c) Preparation and reactions of Diphenylmethene.
   d) Significance and principle involved in Reichert Meissl Value.

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