



JJ-014-1043001 Seat No. _____

**Master of Pharmacy Management (Sem. III)
(CBCS) Examination**

August / September - 2019

BP301T : Pharmaceutical Organic Chemistry - II

Faculty Code : 014

Subject Code : 1043001

Time : 3 Hours]

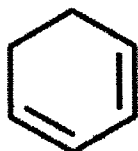
[Total Marks : 75

- 1** Answer the following questions : **20**
- (1) Explain Huckel's rule for aromatic compound with at least two example.
 - (2) Phenol is weak acid. Why?
 - (3) Aniline is less basic than methylamine: justify the statement.
 - (4) What is Iodine value? What is significance for determination of it.
 - (5) Define Polynuclear aromatic compounds with examples.
 - (6) Give structure and use of salicylic acid and o-cresol.
 - (7) Write any two reactions of benzoic acid.
 - (8) What is RM value Rancidity of oils and fat?
 - (9) How will you distinguish 1° and 2° amines? (explain with chemical reaction)
 - (10) How will you synthesize salicylic acid from phenol? (write reaction)
- 2** Answer the following questions : (Any Two) **20**
- (1) Benzene gives substitution reaction not addition. Why? Explain electrophilic substitution reactions of benzene in detail.
 - (2) Enumerate chemical properties of fat and oil. Explain any three in detail.
 - (3) Write structure and use of following compounds.
 - (a) DDT
 - (b) BHC
 - (c) Resorcinol,
 - (d) Naphthols
 - (e) Anthracene

3 Answer the following questions : (Any Seven)

35

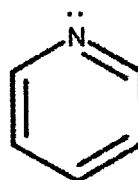
- (1) Discuss the molecular orbital structure and resonance of benzene.
- (2) Write Haworth synthesis of Naphthalene and anthracene.
- (3) What is Hofmann Degradation? Write reaction involved in it.
- (4) Write a note on acidity of phenol.
- (5) Define following term for fats and oil.
 - (a) Saponification Value
 - (b) Acid Value
 - (c) Acetyl Value
 - (d) Ester Value
 - (e) Hydrolysis
- (6) How is aniline prepared in the lab? Describe its important reactions.
- (7) Explain different theories for Stability of cyclo alkanes.
- (8) Explain any two methods of preparation and reactions of phenol.
- (9) Indicate aromatic or non-aromatic compound.



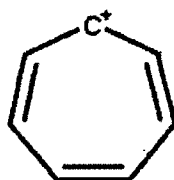
(a)



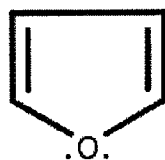
(b)



(c)



(d)



(e)