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**Paper Code :DSC-206**

**Roll No.**

**B.Sc. (ZBC)-13, B.Sc. (PCM)-14  
2<sup>nd</sup> Year Examination, Academic Batch 2018  
Organic Chemistry**

*Time : 3 Hours ]*

*[ Max. Marks : 100*

*Note. Attempt any **Five** questions. All questions carry equal marks.*

**Q.1.** Discuss the methods of preparation and properties of phenols.

**Q.2. (a)** Discuss the chemical properties of naphthalene.

**(b)** How does pyrrole resemble aromatic amines and phenols in chemical properties.

**Q.3.** What are organometallic compounds? Give the methods of preparation and properties of Grignard reagent.

**Q.4** What are heterocyclic compounds? Discuss the methods of preparation and properties of pyridine.

**Q.5** Describe Fischer indole synthesis.

**Q.6** Write a note on Claisen Condensation including its mechanism?

**Q.7** What are sulpha drugs? Give the mechanism of their action.

**Q.8** What happens when:-

- (i) Phenol is heated with zinc dust.
- (ii) Phenol is treated with bromine water.
- (iii) Phenol is heated with CCl<sub>4</sub> in the presence of NaOH solution and with bromine water.