

FACULTY

Pharm. D (6 YDC) I-Year (Instant) Examination, February 2020

Subject: Pharmaceutical Organic Chemistry

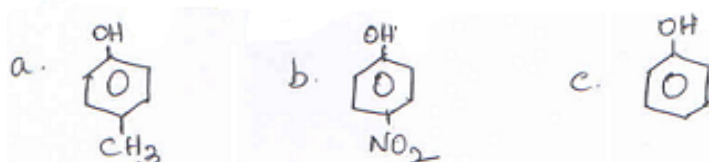
Time: 3 Hours

Max Marks: 70

Note: Answer all questions from Part-A, Answer any Five questions from Part- B.

Part-A (10x2=20 Marks)

1 Arrange the following in the increasing order of acidity.



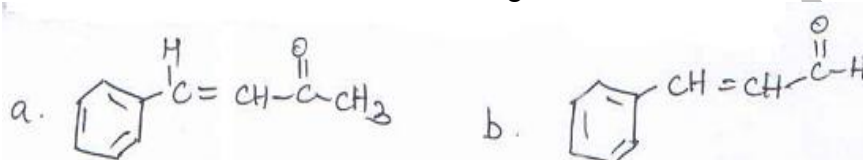
2 Phenol is more acidic than alcohol. Why?

3 Explain Saytzeffs rule.

4 Define Protic and Aprotic solvents?

5 Give the Reimer tieman's reaction

6 Write IUPAC name of the following



7 Write the structural formula for the following

a. 4-Methyl-3-Penten-2-one

b. 2-Iodo-2,3dimethyl butane.

8 Explain Haloform reaction.

9 Explain Bayers stain theory.

10 Write the medicinal uses of Saccharin sodium.

Part-B (5x10=50 Marks)

11 a. Explain the Hinsberg test in the analysis of amines.

b. Explain the theory of orientation in Alkenes.

12 Compare between

a. SN_1 reaction verses SN_2 reaction

b. E_1 reaction verses E_2 reaction.

13 Explain the following reactions of Alkenes

(a) Oxymercuration –Demercuration (b) Hydration

(c) Epoxidation (d) Ozonolysis (e) Hydroxylation

14 a. Explain the Free radical addition reaction of Propylene with HBr.

b. Explain the effect of halogen on electrophilic aromatic substitution in alkyl benzene

15 Write short notes on following

(a) Claisen condensation (b) Williamson's synthesis.

16 Write the mechanism for the following

(a) Cannizaro reaction (b) Perkin condensation.

17 Write the methods for preparation and medicinal uses of

(a) Aspirin (b) Vanillin

18. a. Write the test for purity and uses of Glyceryl trinitrate.

b. Explain 1,2 and 1,4 addition reaction of conjugated dienes.

G.
