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## SUBJECT CODE NO: - YY-2332 FACULTY OF SCIENCE AND TECHNOLOGY

B.Sc. F.Y (Sem-I)

## Examination May / June - 2023 Chemistry Paper-II Organic Chemistry

[Time: 1:30 Hours] [Max. Marks: 40] Please check whether you have got the right question paper. 1) All questions are compulsory. N.B 2) All questions carry equal marks. Q1 What is isomerism? Explain different types of isomerism with suitable examples. a) Explain structure and stability of carbocation. 05 b) Explain Huckel rule of aromaticity with example. 05 Q2 Explain SN' reaction with suitable example 10 OR a) Discuss Gattermann-Koch reaction with mechanism 05 b) Explain Oppenauer Oxidation of diols 05 10 Write short notes on (any two) 1) Gattermann reaction 2) Enantiomers 3) Schotten Baumann reaction 4) Sulphonation reaction of benzene 10 Select and write correct answer of the following 1) From following which reagent acts as nucleophile? a)  $NO_2^{\oplus}$ b)  $SO_3$  c) Carbanion d) None of these 2) Which of following is most stable carbocation? CH3-CH3 b) (H3- f⊕ In E and Z system of nomenclatux, E and Z means a) Entgegen and Zusammen b) Entagone and Zusamen

c) Entgegen and Zusmord) Entagonist and Zusamenn

- 4) Diastereomers are ----
  - a) Not mirror images of each other
  - b) Non superimposable mirror images of each other
  - c) Super imposable mirror images of each other
  - d) All of these
- 5) From the following which compound is aromatic in nature?
  - a) Benzene
- b) Aniline
- c) Toluene
- d) All of these
- 6) For sulphonation of benzene, ----- is used as reagent.

7) 1-butene on reaction with H Br in absence of hydrogen peroxide mainly gives.

- a) 1-bromobutane
- b) 1-butanol
- c) 2- bromobutane
- d) 2- butanol
- 8) In Sandmeyer reaction ----- is used.
  - a) Cupric chloride
- b) Cupric bromide
- c) Cuprous chloride
- d) All of these

9) Secondary alcohol on oxidation with PCC gives,

- a) Ketone
- b) Aldehyde
- c) Ester
- d) Ether

10) Carbon monoxide is used as reagent in -----

- a) Gattermann-Koch reaction
- b) Reimer-Tiemann reaction
- c) Oppenauer oxidation
- d) Pinacole-Pinacolone rearrangement