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SUBJECT CODE NO: -BB-2302
FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc. (CBCGS)(Pattern-2022) F.Y. SEM I
Examination November / December 2025
Chemistry Paper-II Organic Chemistry

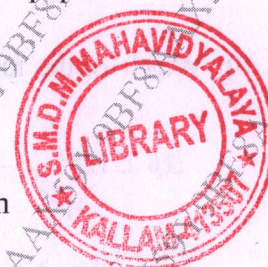
[Time: 1:30Hours]

[Max. Marks:40]

Please check whether you have got the right question paper.

N. B

- 1) All questions are compulsory.
- 2) All questions carry equal marks



Q1 Explain with suitable examples enantiomerism and diastereomerism **10**

OR

- a) Explain hyper conjugation effect with example **5**
- b) Discuss nitration of benzene with mechanism **5**

Q2 How primary and secondary alcohols are prepared from aldehyde ketones carboxylic acids and esters? **10**

OR

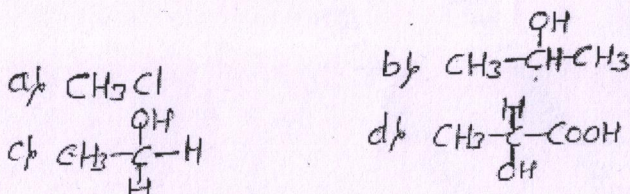
- a) Explain Threo and erythro molecules **5**
- b) Discuss SN^1 and SN^2 reactions with suitable examples **5**

Q3 Write short notes on following (any two) **10**

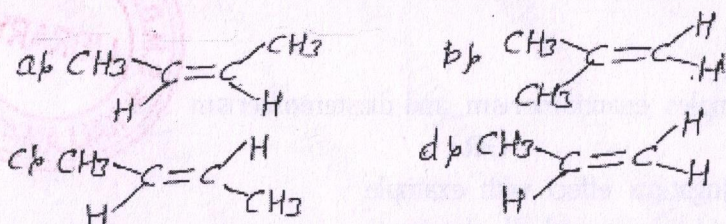
- a) Inductive effect
- b) Sandmeyer reaction
- c) Oppeneauer oxidation
- d) Houben Hoesch condensation

Q4 Choose and write the correct answer of the following **10**

- 1) Delocalized chemical bond is found in ----
 a) Butene b) 1,3-Butadiene c) cyclohexene d) Cyclopentene
- 2) Which of the following molecule is optically active

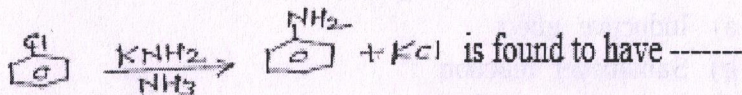


- 3) As per Huckel rule aromatic compound possess -----electrons
 a) $(4n + 2)\pi$ b) $(4n+1)\pi$ c) $(4n+4)\pi$ d) $(4n)\pi$
- 4) Alkenes reacts with haloacids to form -----
 a) Alkane b) Alcohols c) Acids d) Alkyl halides
- 5) PCC oxidizes secondary alcohols to -----
 a) Aldehydes b) Ketones c) Acids d) Esters
- 6) Which of the following molecule is having Z configuration?



- 7) The carbon atom possessing negative charge is known as -----
 a) Carbocation b) carbene c) carboanion d) Benzyne
- 8) Benzene reacts with H_2SO_4 to form -----
 a) Nitrobenzene b) Benzene sulphonic acid
 c) Diazobenzene d) Acetophenone

- 9) The reaction intermediate



- a) Carbocation b) Free radical c) carboanion d) Benzyne
- 10) Reimer - Tiemann reaction is having ---intermediate
 a) Nitrene b) Dichlorocarbene c) Free radical d) Carbo cation