

Seat
No.

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कण - 135

CHEMISTRY PAPER - II : CH - 232
Organic Chemistry & Analytical Chemistry - I
(New) (23136)

P. Pages : 2

Time : Two Hours

Max. Marks : 40

Instructions to Candidates :

1. Do not write anything on question paper except Seat No.
2. Answersheet should be written with blue ink only. Graph or diagram should be drawn with the same pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. All questions are compulsory.
5. Figure to the right indicate full marks.
6. Use of logarithmic tables & calculators is allowed
7. Draw neat diagrams wherever necessary.

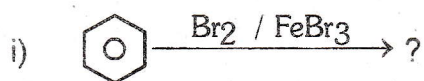
1. a) Choose the correct answer from the following

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- i) Instrumental error is a type of
 - a) Determinate error
 - b) Indeterminate error
 - c) Absolute error
 - d) Relative error
- ii) Indicator used in estimation of chloride by fajans method is
 - a) Methyl orange
 - b) Phenolphthalein
 - c) Methyl red
 - d) Fluorescein
- iii) The most stable conformation of n - butane is
 - a) Fully eclipsed
 - b) Skew or gauche
 - c) Staggered or Anti
 - d) Partially eclipsed
- iv) Electron with drawing group on aromatic ring directs the substitution of electrophile at
 - a) Ortho position
 - b) meta position
 - c) para position
 - d) ortho and para position

b) Attempt **any two** of the following

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ii) Define the term accuracy.

iii) What are haloarenes ? Give one example.

iv) Define plane of symmetry.

2. Attempt **any two** of the following

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i) What is rounding off ? State the rules for rounding off.

ii) Derive the Henderson - Hasselbach equation for pH of acid base indicator.

iii) Write note on fries rearrangement.

3. a) Answer **any one** of the following

4

i) Describe the volhard's method for estimation of chlorides.

ii) Explain sulphonation of benzene with mechanism .

b) Answer **any one** of the following

4

i) What are determinate error ? How determinate errors can be minimised ?

ii) How will you prepare benzaldehyde from following ?

a) Benzene

b) Toluene

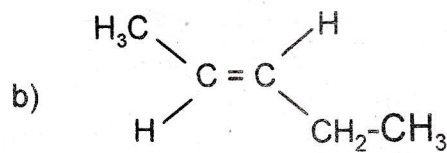
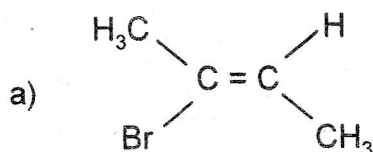
4. Answer **any two** of the following

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i) How AgNO_3 solution is standardised by mohr's method ?

ii) Give the method for preparation of methyl orange from sulfanilic acid.

iii) Assign 'E' or 'Z' configurations for the following



5. a) Explain the nature of titration curve for strong acid with weak base. Which indicator is used for this titration ? Why ?

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OR

What is optical activity ? How optical activity is measured by using Polarimeter ?

b) Define the term equivalence point.

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