

SW-104

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B.Sc. (Part-III) (Semester-VI) (Revised)

Examination, October - 2019

CHEMISTRY

Organic chemistry (paper-XV)

Sub. Code: 65832

Day and Date: Friday, 18-10-2019

Total Marks : 40

Time : 12.00 noon to 2.00 p.m.

- Instructions :
- 1) All questions are compulsory.
 - 2) Figures to the right indicate full marks.
 - 3) chemical equations are to be written wherever necessary.

Q1) Select most correct alternatives among those given below and rewrite the sentences. [8]

- a) Chloramphenicol is an ____ drug.
- | | |
|-------------------|-----------------|
| i) antiseptic | ii) antibiotics |
| iii) antimalarial | iv) antipyretic |
- b) The drug which are used in treatment of cancer is called as ____ drug.
- | | |
|-------------------|----------------|
| i) antineoplastic | ii) antiseptic |
| iii) antidiabetic | iv) Cardiac |
- c) Reduction of $R - C \equiv C - R$ with Lindlar's catalyst forms ____
- | | |
|--------------------|------------------------------------|
| i) alkanes | ii) cis-alkenes |
| iii) trans-alkenes | iv) a mixture of cis-trans alkenes |
- d) Citral is having ____ group in its structure.
- | | |
|---------------|------------|
| i) alcohol | ii) acid |
| iii) aldehyde | iv) ketone |
- e) Dehydration of α -terpineol with $KHSO_4$ gives ____
- | | |
|----------------------|------------------|
| i) dipentene | ii) terebic acid |
| iii) terpenylic acid | iv) geranic acid |

P.T.O.

- f) LAH is useful reagent for reduction of _____ compounds.
- | | |
|-----------------|--------------|
| i) Carbonyl | ii) Aromatic |
| iii) Paraffinic | iv) Olefinic |
- g) In Hoffmann rearrangement, a primary amide is converted to a primary amine with _____
- | |
|-------------------------------|
| i) Same number of carbon atom |
| ii) one carbon atom less |
| iii) Loss of two carbon atom |
| iv) Loss of many carbon atoms |
- h) SeO_2 act as ___ reagent.
- | | |
|--------------------|---------------------|
| i) hydrating | ii) dehydrating |
| iii) hydrogenating | iv) dehydrogenating |

Q2) Attempt any two of the following

[20]

- a) Give the synthesis and uses of following drugs
- | |
|----------------|
| i) Ethambutol |
| ii) Isoniazide |
- b) How will you establish the structure of Ephedrine on the basis of analytical evidence?
- c) Give the method of preparation of Lithium aluminium hydride with its any four synthetic applications.

Q3) Attempt any three of following

[12]

- a) Explain with mechanism - addition of bromine to propene.
- b) Diels - Alder reaction
- c) Qualities of Ideal Drug
- d) Michael reaction
- e) Ozonolysis of alkene

