



16. Write the synthesis of (i) Quinoline (ii) Isoquinoline.
17. What are disaccharides? Discuss the structure of sucrose, maltose and lactose.
18. Differentiate thermoplastics and thermosetting plastics. Write one examples for each. (Weightage : 2x4=8)

SECTION - D

Answer any two questions.

19. Write the mechanisms of (i) Benzoin condensation (ii) Beckmann rearrangement.
20. What are α -amino acids? Explain Gabriel and Strecker methods of preparation of α -amino acids.
21. Explain the synthesis of following compounds from aniline (i) p-nitro aniline (ii) p-bromo aniline. (Weightage : 4x2=8)

SECTION - E

Answer any four questions.

12. How will you distinguish primary, secondary and tertiary alcohols by oxidation method?
13. How will you distinguish primary, secondary and tertiary alcohols by oxidation method?
14. What is Claisen condensation? Discuss its mechanism.
15. How will you synthesize benzoic acid from benzene sulphonic acid?



Reg. No. :

Name :

VI Semester B.Sc. Degree (CCSS - Reg./Supple./Improv.)
Examination, May 2016
Core Course in Chemistry
6B14 CHE : ORGANIC CHEMISTRY - II

Time : 3 Hours

Max. Weightage : 25

SECTION - A

Answer all questions.

Choose the correct answer.

- i) Which of the following gives a tertiary alcohol when treated Grignard Reagent?

A) Formaldehyde B) Acetaldehyde
C) Acetone D) Butanoic acid

ii) IUPAC name of picric acid is _____

A) 2, 4, 6 tri bromo benzene B) 2, 4, 6 tri nitro phenol
C) 2, 4, 6 tri nitro toluene D) 2, 4, 6 tri bromo aniline

iii) Aldehydes and ketones form hydrocarbons by

A) Rosenmund's reduction B) Cannizaro's reduction
C) Clemenson reduction D) Stephen's reduction

iv) Dehydration of glycerol with potassium hydrogen sulphate gives

A) Vanillin B) Crotonaldehyde
C) Acroleine D) Formaldehyde
- i) When acetoacetic ester is subjected to ketonic hydrolysis, the ketone obtained is _____

A) Di methyl ketone B) Methyl ethyl ketone
C) Di ethyl ketone D) Methyl n-propyl ketone



- ii) Action of alkyl halides on magnesium metal in presence of dry ether gives
- A) Frankland Reagent B) Grignard Reagent
C) Lucas Reagent D) Wilkinson catalyst
- iii) Acid hydrolysis of isocyanides give a primary amine and that of cyanides give _____
- A) Secondary amine B) Tertiary amine
C) Hydrocarbon D) Carboxylic acid
- iv) Distinguish N-methyl aniline and N, N-di methyl aniline by
- A) Lucas test B) Picrate test
C) Hinsberg test D) Ozazone test
3. i) Nitro benzene on reduction with tin and hydrochloric acid gives _____
- A) m-dinitro benzene B) m-nitro aniline
C) aniline D) p-chloro aniline
- ii) Nitro methane on halogenations give the insecticide
- A) Chloroform B) Chloropicrin
C) DDT D) BHC
- iii) The number of chiral carbon atoms in an aldopentose is
- A) 2 B) 3 C) 4 D) 5
- iv) Glucose does not react with
- A) Sodium hydrogen sulphite B) Phenyl hydrazine
C) Hydroxyl amine D) Hydrogen cyanide
4. i) The carbohydrate which cannot be hydrolysed in human digestive system
- A) Starch B) Sucrose
C) Lactose D) Cellulose
- ii) Which among the following is the sweetest ?
- A) Lactose B) Fructose
C) Sucrose D) Maltose



- iii) An anthrax quinoid dye is _____
- A) Indigo B) Eosin
C) Alizarin D) Crystal violet
- iv) Tetra bromo fluorescein is _____
- A) Eosin B) Fuschine
C) Indigo D) Malachite green

(Weightage : 1×4=4)

SECTION – B

(Short answer)

Answer **any five** questions.

- Write the mechanism of Pinacole – Pinacolone rearrangement.
- Explain the Oppenauer oxidation of secondary alcohols using suitable example.
- Draw the structure of (i) Anthranilic acid (ii) Phthalic acid.
- How will you identify urea in the laboratory ?
- Explain why pyridine is more basic than pyrrole.
- Represent the Haworth Projection formulae of α -D Glucose and β -D Glucose.
- Write a note on mutarotation.
- How will you synthesise fluorescence ?

(Weightage : 1×5=5)

SECTION – C

Answer **any four** questions.

- How will you distinguish primary, secondary and tertiary alcohols by oxidation method ?
- What is Claisen condensation ? Discuss its mechanism.
- How will you synthesise benzoic acid from benzene sulphonic acid ?