K26FY0318 Pages: 2 Reg No:.....
Name:.....

Fourth Semester FYUGP Degree (Reg) Examination April 2026

KU4DSCCHE202 - ORGANIC CHEMISTRY II

2024 Admission onwards

Time : 1.5 hours Maximum Marks : 50

Section A

Answer any 6 questions. Each carry 2 marks.

1. Draw the variuos resonance structures of nitrobenzene.
2. Write the general method of preparation of isocyanides.
3. Suggest a reaction to reduce CH_3COCl to CH_3CHO.
4. What do you mean by Stephen's reduction?
5. Define α, β-unsaturated carboxylic acids with one example.
6. Write the preparation of benzoic acid from toluene.
7. What is the product obtained by reacting glucose with HCN?
8. What happens when starch is boiled with dilute hydrochloric acid? Mention two uses of starch.

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Section B

Answer any 4 questions. Each carry 6 marks.

9. Explain the method of preparation and reactions of Acrylic acid.
10. Discuss Blanc's rule with suitable examples.
11. Breifly explain methods of preparation and reactions of Anthranilic Acid.
12. Explain Osazone formation reaction with suitable equation.
13. Explain the structural difference between starch and cellulose.
14. How will you convert aldohexose to aldopentose using Ruff's degradation?

Section C

Answer any 1 questions. Each carry 14 marks.

15. Write down the mechanisms for the reactions
    a) Curtius reaction
    b) Schimdt reaction
    c) Hoffmann elimination and Hoffmann bromamide reaction.

16. Describe the mechanism of a) Aldol condensation, b) Beckmann rearrangement and c) Benzoin condensation

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