

Bharatiya Vidya Bhavan's Shri Ishvarlal L. P. Arts-
Science & J. Shah Commerce College, Dakor Online
Internal Examination, October - 2020 B.Sc.

Chemistry(Semester - V) Paper Code :

US05CCHE21 Paper Name : Organic Chemistry

Date :05/10/2020

Time : 12:00 to 12:30 pm

Total Marks: 30

* Required

1. Email address *

2. Full Name *

3. EMAIL ID

4. Mobile No. *

5. Roll No. *

6. Class *

Mark only one oval.

B.Sc.

B.Com

B.A.

7. Semester *

Mark only one oval.

I

III

V

Give the answer of the following multiple choice questions.

8. 1. The conversion of trans alkene from alkyne is known as _____

Mark only one oval.

Beckmann Rearrangement

Birch Reduction

Wittig Reaction

Hoffman Rearrangement

9. 2. Alkene is also known as _____

Mark only one oval.

- Olefin
- Amine
- Parafin
- Enol

10. 3. Cyclic ester is known as _____

Mark only one oval.

- Lactum
- Lactone
- Lactus
- Lactine

11. 4. Which of the following is known as a p-Ylide reaction ?

Mark only one oval.

- Birch Reduction
- Wittig Reaction
- Hoffmann Rearrangement
- Sommelet Rearrangement

12. 5. Which of the following is not C to N migration rearrangement ?

Mark only one oval.

- Hoffman Rearrangement
- Curtius Rearrangement
- Beckmann Rearrangement
- Favorskii Rearrangement

13. 6. The conversion of alpha-hydroxy ketone from two moles of benzaldehyde is known as _____

Mark only one oval.

- Perkin Reaction
- Benzoin Condensation
- Birch Reduction
- Benzil-Benzilic acid rearrangement

14. 7. In birch reduction, which of the following intermediate is generated ?

Mark only one oval.

- Free Radical
- Carbanion
- Free Radical and carbanion
- Carbocation

15. 8. The reaction of isocyanate with alcohol will give_____

Mark only one oval.

- Urea derivative
- carbamate
- amine
- amide

16. 9. The reaction of acid chloride with sodium azide/water will give_____

Mark only one oval.

- amide
- amine
- carbamate
- urea derivative

17. 10. In Beckmann rearrangement migratory groups approaches to nitrogen atom _____

Mark only one oval.

- Same Side of Oxygen atom
- Same Side of Nitrogen atom
- Opposite side of Nitrogen atom
- Opposite side of Oxygen atom

18. 11. p-N-N Dimethylaminobenzaldehyde do not undergo self-condensation under benzoin reaction, why?

Mark only one oval.

- Due to inductive effect
- Due to electron withdrawing group
- Due to mesomeric
- Due to resonance

19. 12. The removal of carbonyl group from amide is known as _____

Mark only one oval.

- Hoffmann Rearrangement
- Curtius Reaction
- Beckmann
- Favorskii

20. 13. Stereochemistry in Hoffmann reaction will be _____

Mark only one oval.

- Do not Change
- Change
- Inversion
- None

21. 14. The reaction of ketone, formaldehyde and amine is known as _____

Mark only one oval.

- Birch Reduction
- Benzoin
- Bayer Villiger
- Mannich

22. 15. The favorskii rearrangement follows _____reaction

Mark only one oval.

- SN1
- SN2
- SNi
- E1

23. 16. Pyridine reacts with HCl and it forms_____

Mark only one oval.

- Pyridinium Chloride
- 3-Cl pyridine
- 2-Cl Pyridine
- All

24. 17. Furan reacts with ammonia in the presence of alumina at 400 (degree) to give_____

Mark only one oval.

- Fufural
- Furoic Acid
- Pyrrole
- Pyridine

25. 18. The N atom in pyridine is _____

Mark only one oval.

- SP3
- sp2
- sp
- None

26. 19. Pyridine undergoes nucleophilic substitution with sodamide at 100(degree) to form

Mark only one oval.

- 2-Amino pyridine
- 4-Amino pyridine
- 3-Amino pyridine
- None

27. 20. Which of the following reagents will react with pyrrole to form 2-formyl pyrrole ?

Mark only one oval.

- HCOOH
- H₂O₂
- CHCl₃/KOH
- (CH₃CO)₂O/SnCl₂

28. 21. Pyridine has a delocalized pi- molecular orbital containing _____ electrons

Mark only one oval.

- 4
- 6
- 8
- 12

29. 22. Pyridine undergoes SE reaction at position _____

Mark only one oval.

- 3
- 2
- 4
- 5

30. 23. Pyridine undergoes SN reaction at position _____

Mark only one oval.

3

2

4

5

31. 24. Which of the following oxidising agent can not be used in Baeyer Villiger Oxidation?

Mark only one oval.

H₂O₂

m-CPBA

Caro's acid

Chromic acid

32. 25. Geminal dihalo ketone reacts with the base then what will be the product?

Mark only one oval.

Alpha-gamma unsaturated ketone

alpha-beta unsaturated ester

alpha-beta unsaturated acid

alpha-beta unsaturated halide

33. 26. Which of the following is not a heterocyclic compound?

Mark only one oval.

- Furan
- pyrrole
- picric acid
- thiophene

34. 27. Beckmann rearrangement is carried out under_____

Mark only one oval.

- PCl_5
- P_2O_5
- POCl_3
- All

35. 28. Benzoin condensation reaction is carried out under_____ nucleophile.

Mark only one oval.

- Amine
- Hydroxyl
- Halide
- Cyanide

36. 29. An aromatic aldehyde is reacted with acetic anhydride in presence of base will give_____

Mark only one oval.

- Alpha-beta unsaturated ketone
- Alpha-beta unsaturated ester
- Alpha-beta unsaturated acid
- Alpha-beta unsaturated halide

37. 30. The reaction of acyl azide with water will give_____

Mark only one oval.

- Carbamate
- Amine
- amide
- urea

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