

# Online Assessment (Even Sem/Part-I/Part-II Examinations 2019 - 2020)

Course Name - Pharmaceutical Organic Chemistry I

Course Code - BP202T

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Answer all the questions. Each question carry one mark.

9. 1.Which one gives 1st position in priority table? \*

*Mark only one oval.*

- Aldehyde
- Ketone
- Nitro
- Carboxylic acid

10. 2.Structural isomerism can be classified as \_\_\_\_ types \*

*Mark only one oval.*

- 1
- 3
- 4
- 5

11. 3.Which of the following is a 2° alcohol? \*

*Mark only one oval.*

- 1-Propanol
- 2-Propanol
- Cyclohexanol
- 2-methyl-2-butanol

12. 4.Which of the following compound has the functional group – OH \*

*Mark only one oval.*

- 2-butanone
- 1, 2-ethandiol
- Nitrobenzene
- Ethanal

13. 5.In C=C, there is \*

*Mark only one oval.*

- sp<sup>3</sup> hybridization
- sp hybridization
- sp<sup>2</sup> hybridization
- no hybridization

14. 6.Ketones are prepared by the oxidation of \*

*Mark only one oval.*

- Primary alcohol
- Secondary alcohol
- Tertiary alcohol
- None of these

15. 7.Markonikov's addition of HBr is not applicable to \*

*Mark only one oval.*

- propane
- 1-butane
- 1-pentene
- 2-butene

16. 8.Rectified spirit is \*

*Mark only one oval.*

- 100% ethanol
- 90% ethanol
- 100% methanol
- 95% ethanol

17. 9.The high boiling points of alcohols,as compared to the corresponding alkanes,are due to \*

*Mark only one oval.*

- Hydrogen bonding
- Heavy oxygen atom
- Water solubility
- None of these

18. 10.As per IUPAC nomenclature,aldehyde named as \_\_\_\_\_.\*

*Mark only one oval.*

- alkenals
- alkanals
- alkynals
- None of these

19. 11.Which one is a conjugated diene ? \*

*Mark only one oval.*

- $C = C - C = C$
- $C - C = C - C$
- $C = C - C - C = C$
- $C = C = C$

20. 12. Select the incorrect statement regarding alkanes \*

Mark only one oval.

- It is otherwise known as Paraffin
- It is an acyclic saturated hydrocarbon
- In alkanes, C-C bonds are single
- Alkanes have the general formula  $C_nH_{2n}$

21. 13. The oxidizing agent in the Tollen's test for the presence of an aldehyde is \*

Mark only one oval.

- $Ag(NH_3)_2OH$
- Ag
- $Cu^{2+}$
- $Cu_2O$

22. 14. Which amine is not soluble in water? \*

Mark only one oval.

- Methylamine
- Dimethylamine
- Trimethylamine
- All of these are water soluble



23. 15. When ethyl chloride reacts with nascent hydrogen, what is the formed product?

*Mark only one oval.*

- Methane
- Propane
- Butane
- Ethane

24. 16. Saytzeff rule states the \_\_\_\_\_ is formed most readily \*

*Mark only one oval.*

- least substituted alkane
- most substituted alkane
- least substituted alkene
- most substituted alkene

25. 17. General formula for alcohols is \*

*Mark only one oval.*

- $C_nH_{2n}$
- $C_nH_{2n+1}OH$
- $C_nH$
- $CH_3$

26. 18. Markonikov addition \*

*Mark only one oval.*

- gives the most stable carbocation
- gives the least stable carbocation
- is addition to a carbon atom containing the least hydrogen atom
- none of these

27. 19. The product formed in Aldol condensation is \*

*Mark only one oval.*

- beta-hydroxy aldehyde or a beta-hydroxy ketone
- an alpha-hydroxy aldehyde or ketone
- an alpha, beta unsaturated ester
- a beta-hydroxy acid

28. 20. Which of the following reaction can be used to prepare propane alkane? \*

*Mark only one oval.*

- Wurtz Reaction
- Wolf-Kishner Reaction
- Kolbe electrolysis
- All of these

29. 21. Which alkyl halide has the highest reactivity for a particular alkyl group? \*

Mark only one oval.

- R-F
- R-Cl
- R-I
- R-Br

30. 22. Clemmensen reduction of a ketone is carried out in the presence of which of the following? \*

Mark only one oval.

- H<sub>2</sub> and Pt as catalyst
- Glycol with KOH
- Zn-Hg with HCl
- LiAlH<sub>4</sub>

31. 23. Lindlar's catalyst is \*

Mark only one oval.

- LiAlH<sub>4</sub>
- Pd/BaSO<sub>4</sub> in quinoline
- NH<sub>2</sub>NH<sub>2</sub>
- HCl/ZnCl<sub>2</sub>

32. 24. Acid anhydrides on reaction with primary amines give \_\_\_\_\_.\*

*Mark only one oval.*

- amide
- imide
- secondary amine
- imine

33. 25. Which of the following is a tertiary amine? \*

*Mark only one oval.*

- Methylamine
- Dimethylamine
- Ethyl methylamine
- Trimethylamine

34. 26. Acetyl salicylic acid is an \_\_\_\_\_ derivative of salicylic acid.\*

*Mark only one oval.*

- Methyl
- acetyl
- butyl
- pentyl

35. 27. Which of the following compounds show geometrical isomerism? \*

Mark only one oval.

- 2-Butene
- 2-Methyl-2-Butane
- 1-Pentanol
- 1,2-Dichloropropane

36. 28. The shape of a p orbital is \*

Mark only one oval.

- oval
- spherical
- dumb-bell
- rectangular

37. 29. Which of the following compounds assigned the Octane Number of zero: \*

Mark only one oval.

- n-Octane
- 2,3,3-Trimethylpentane
- n-Heptane
- 2,2,4-Trimethylpentane

38. 30. Which of the following compounds reacts slowest with Lucas reagent at room temperature? \*

*Mark only one oval.*

- 1-butanol
- 2-propanol
- 2-butanol
- 2-methyl-2-propanol

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