

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

Course Name - Pharmaceutical Organic Chemistry II

Course Code - BP401T

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Answer all the questions. Each question carry one mark.

9. 1.Choose the incorrect option regarding Isomerism *

Mark only one oval.

- They differ in both physical and chemical properties
- They have the different molecular formula
- There are two types of Isomerism : Structural and Stereo Isomerism
- Geometric and optical isomerism are two types of Stereo Isomerism

10. 2.Which among the following does not exhibit geometric isomerism *

Mark only one oval.

- 1-hexene
- 2-hexene
- 3-hexene
- 4-hexene

11. 3. Which of the following compounds will exhibit cis-trans isomerism? *

Mark only one oval.

2-butene

2-butyne

2-butanol

butanal

12. 4. How many optically active stereoisomers are possible for butane-2,3-diol? *

Mark only one oval.

1

2

3

4

13. 5. Which of the following hydrocarbons does not have isomers? *

Mark only one oval.

C₇H₁₆

C₆H₁₄

C₅H₁₀

C₃H₈

14. 6.How many aromatic isomers of dibromobenzene exist? *

Mark only one oval.

2

3

4

6

15. 7.Which of the following does NOT exhibit geometric isomerism? *

Mark only one oval.

1-hexene

2-pentene

3-hexene

2-hexene

16. 8.Which of the following compounds will be optically active *

Mark only one oval.

Propanoic acid

3- chloropropanoic acid

2- chloropropanoic acid

3-chloropropene

17. 9.The isomers of the substance must have *

Mark only one oval.

- same chemical properties
- same molecular weight
- same structural formula
- same functional group

18. 10.Optical isomers that are mirror images are called *

Mark only one oval.

- Tautomers
- Diastereomers
- Enantiomers
- Metamers

19. 11.Compounds with the same molecular formula but different structural formulas are called *

Mark only one oval.

- Alkoxides
- Iso compounds
- Isomers
- Ortho compounds

20. 12.If position of functional group varies in each of its isomer then it is called _____

*

Mark only one oval.

- position isomerism
- functional group isomerism
- chain isomerism
- all of them

21. 13.Compounds which have same molecular formula but different structural formula are called _____ *

Mark only one oval.

- structural isomer
- molecular isomer
- optical isomer
- position isomer

22. 14.Only two isomers of monochloro product is possible of *

Mark only one oval.

- n-butane
- 2,4-dimethyl pentane
- Benzene
- 1-methyl propane

23. 15. In ethane and cyclohexane which one of the following pairs of conformations are more stable *

Mark only one oval.

- Eclipsed and chair conformations
- Staggered and chair conformations
- Staggered and boat conformations
- Eclipsed and boat conformations

24. 16. Number of isomers of molecular formula $C_2H_2Br_2$ are *

Mark only one oval.

- 1
- 2
- 3
- 0

25. 17. What is the reactivity order in the following five membered heterocyclic compounds? *

Mark only one oval.

- Pyrrole
- Furan
- Thiophene
- Pyridine

26. 18. When Pyrrole is treated with acetic anhydride to give _____ *

Mark only one oval.

- 2-Acetyl pyrrole
- 3-Acetyl pyrrole
- 4-Acetyl pyrrole
- 5-Acetyl pyrrole

27. 19. Boiling point of Pyrazole is _____ *

Mark only one oval.

- 185 °C
- 205°C
- 155°C
- 85°C

28. 20. Which among the following correctly defines Diastereomer? *

Mark only one oval.

- These have same magnitude but different signs of optical rotation
- Nonsuperimposable object mirror relationship
- These differ in all physical properties
- Separation is very difficult

29. 21. An isomer of ethanol is: *

Mark only one oval.

- methanol
- diethyl ether
- acetone
- dimethyl ether

30. 22. The name of the alkane isomer of cis-3-hexene is: *

Mark only one oval.

- 2-methylpentane
- 3-methylpentane
- n-hexane
- cyclohexane

31. 23. Which of the following compounds displays optical isomerism? *

Mark only one oval.

- $\text{CH}_2(\text{OH})-\text{CH}_2(\text{OH})$
- $\text{CH}_3-\text{CHCl}-\text{COOH}$
- $\text{CH}_2=\text{CHCl}$
- $\text{CHCl}=\text{CHCl}$

32. 24. Which of the following solvents is a heterocyclic compound? *

Mark only one oval.

- THF
- DMSO
- DMF
- Diglyme

33. 25. If different functional groups are present it is termed as *

Mark only one oval.

- position isomerism
- functional group isomerism
- chain isomerism
- all of them

34. 26. Lactic acid shows _____ *

Mark only one oval.

- Geometrical isomerism
- Tautomerism
- Optical isomerism
- Metamerism

35. 27. Pyrazole reacts with chlorine to give _____ *

Mark only one oval.

- 4- Halopyrazole
- 2- Halopyrazole
- 3- Halopyrazole
- 5- Halopyrazole

36. 28. Which among the following defines Meso forms of isomers *

Mark only one oval.

- Meso form is optically inactive due to external compensation
- The molecules of the meso isomers are chiral
- It can be separated into optically active enantiometric pairs
- It is a single compound

37. 29. The electron of Nitrogen participating in the resonance in pyridine is present in which orbital? *

Mark only one oval.

- p-orbital
- sp²-orbital
- sp³-orbital
- sp -orbital

38. 30.Types of structural isomerism are *

Mark only one oval.

- position isomerism
- functional group isomerism
- chain isomerism
- all of them

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