

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

Course Name - Advanced Chemistry

Course Code - BBT403

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Answer all the questions. Each question carry one mark.

9. 1. The building block of protein is

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- Wax
- Carbohydrate
- Amino acids
- Lipid

10. 2. Ozonolysis of an organic compound 'A' produces acetone and propionaldehyde in equimolar mixture. Identify 'A' from the following compounds

Mark only one oval.

- 1-Pentene
- 2-Methyl-1-Pentene
- 2-Methyl-2-Pentene
- 2-Pentene

11. 3. When 2-butyne is treated with Pd-BaSO₄; the product formed will be:

Mark only one oval.

- 1-butene
- Trans 2-butene
- Cis 2-butene
- 2-hydroxy butane

12. 4. In peptide each carbonyl group are held by what with H atom of –NH group

Mark only one oval.

- Intermolecular H bonding
- Intramolecular H bonding
- Both of these
- None of these

13. 5. An example of oxygen containing amino acid is

Mark only one oval.

- Serine
- Threonine
- Valine
- Both serine and threonine

14. 6. An example of optically inactive amino acid is

Mark only one oval.

- Lysine
- Leucine
- Aspartic acid
- Glycine

15. 7. -COOH group of amino acid can be activated by

Mark only one oval.

- DCC
- p-nitrophenol
- Both DCC and p-nitrophenol
- BOC

16. 8. An example of basic amino acid is

Mark only one oval.

- Arginine
- Lysine
- Aspartic acid
- Both lysine and arginine

17. 9. The peptide bond in proteins is

Mark only one oval.

- Planar but rotates to three preferred dihedral angles
- Non-polar but rotates to three preferred dihedral angles
- Planar and usually found in a trans conformation
- Not cleaved by hydrolysis

18. 10. The enzyme used to protect N terminal end of amino acid is

Mark only one oval.

- Carboxypeptidase
- Lysase
- Glycase
- Leucine aminopeptidase

19. 11. In peptide , C terminal end is written on which side?

Mark only one oval.

- Left
- Right
- Both left and right
- None of these

20. 12. Glucose on reaction with Br₂ water produces

Mark only one oval.

- Glucaric acid
- Gluconic acid
- Fructose
- Sucrose

21. 13. An example of non reducing sugar is

Mark only one oval.

- Fructose
- Glucose
- Sucrose
- Mannose

22. 14. Gangloside contains branched chain of multiple sugar residues. How many sugar residues are present?

Mark only one oval.

- 7
- 8
- 9
- 10

23. 15. Ozonolysis of acetylene produces

Mark only one oval.

- Glyoxal
- Methyl glyoxal
- Phenyl glyoxal
- Ethyl glyoxal

24. 16. Glucose is

Mark only one oval.

- Cyclic hemiacetal
- Cyclic hemiketal
- Glycoside
- Glucosazone

25. 17. LDBVE rearrangement is the reaction between

Mark only one oval.

- Glucose with mild alkali
- Sucrose with alkali
- Lactose with alkali
- Glucose with Concentrated Nitric acid

26. 18. Simplest carbohydrate is

Mark only one oval.

- Dihydroxy acetone
- Glyceraldehyde
- Glucose
- Gulose

27. 19. Name the major storage of carbohydrate in plants

Mark only one oval.

- Cellulose
- Chitin
- Starch
- Glucose

28. 20. Lower fatty acid contains..... C atoms

Mark only one oval.

- 3-11
- 1-9
- 2-10
- 2-12

29. 21. Lipids are

Mark only one oval.

- Esters of fatty acids
- Esters of glycerol
- Esters of fatty acid with glycerol
- Esters of butanal

30. 22. The mass of iodine absorbed in gm by 100 gm of fat is known as

Mark only one oval.

- Saponification number
- Acid value
- RM number
- Iodine number

31. 23. Identify the addition reaction which is not undergone by the alkenes

Mark only one oval.

- Mercuration
- Hydroboration
- Halogenation
- Oxymercuration

32. 24. A gas decolourised by KMnO_4 solution but gives no precipitate with ammoniacal cuprous chloride is

Mark only one oval.

- Ethane
- Methane
- Acetylene
- Ethylene

33. 25. Addition of HBr to propylene in presence of benzoyl peroxide, follows :

Mark only one oval.

- Carbanion mechanism
- Bayer's rule
- Markownikooof's rule
- Anti markownikooof's rule

34. 26. Carbohydrates are known as

Mark only one oval.

- Hydrates of Carbon
- Carbonates
- Glycolipids
- Phospolipids

35. 27. A polysaccharide formed by β 1-4 glycosidic linkage is

Mark only one oval.

- Starch
- Lysose
- Sucrose
- Cellulose

36. 28. Green house gas is

Mark only one oval.

- Carbon monoxide
- Sulfur dioxide
- Hydrogen sulphide
- All of these

37. 29. Ozone hole in Antarctica is due to

Mark only one oval.

- Methane
- Carbon dioxide
- CFC
- Nitrogen

38. 30. d-glucose and l-glucose are

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- Stereoisomers
 - Anomers
 - Keto-aldose isomers
 - Geometrical isomers
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