

Online Examinations (Even Sem/Part-I/Part-II Examinations 2020 - 2021)

Course Name - --Advanced Chemistry

Course Code - BBTC403

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Answer all the questions. Each question carry one mark.

9. 1. An example of sulphur containing amino acid is

Mark only one oval.

- Lysine
- Cysteine
- Alaline
- Valine

10. 2. Examples of Epimers are

Mark only one oval.

- Glucose & Galactose
- Glucose & Ribose
- Maltose & Glucose
- Fructose & Maltose

11. 3. Ozonolysis of an organic compound 'A' produces acetone and propionaldehyde in equimolar quantity. Identify 'A' from the following compounds

Mark only one oval.

- 1-pentene
- 2-methyl-1-pentene
- 2-methyl-2-pentene
- 2-pentene

12. 4. When HBr reacts with propene (by a non-radical route), which statement about the mechanism is incorrect?

Mark only one oval.

- The major product is 2-bromopropane
- A carbenium ion forms as an intermediate
- Br⁻ adds in a rate-determining step.
- H-Br is heterolytically cleaved

13. 5. Benzaldehyde on heating with hippuric acid in presence of NaOAc and Ac₂O to produce

Mark only one oval.

- Alaline
- Glycine
- Aspartic acid
- Phenyl alaline

14. 6. 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
- Sulphur linkage
- Both intermolecular and intramolecular H bonding

15. 7.The building block of protein is called

Mark only one oval.

- Wax
- Carbohydrates
- Amino acids
- Lipids

16. 8. An example of basic amino acid is

Mark only one oval.

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

17. 9. An example of heterocyclic amino acid is

Mark only one oval.

- Proline
- Leucine
- Serine
- Glutamic acid

18. 10. An example of optically inactive amino acid is

Mark only one oval.

- Lysine
- Leucine
- Aspartic acid
- Glycine

19. 11. -NH₂ group of amino acid can be protected by using

Mark only one oval.

- DCC
- p-nitro phenol
- PCl₅
- BOC

20. 12. In sanger method the reagent used is

Mark only one oval.

- 2,4,dichloro fluobenzene
- 2,4,dinitro fluobenzene
- Para chloro benzoic acid
- Dansyl chloride

21. 13. Adenine and thymine are held together by how many number of Hydrogen bonds ?

Mark only one oval.

- 2
- 3
- 4
- 5

22. 14. Which end of amino acid is protected by Dansyl method ?

Mark only one oval.

- C terminal
- N terminal
- Both C and N terminal
- North East

23. 15. In Enzymatic protection of C terminal amino acid the enzyme used is

Mark only one oval.

- Carboxy peptidase
- Lysase
- Leucine aminopeptidase
- Glycylase

24. 16. The enzyme used to protect N terminal end of amino acid is

Mark only one oval.

- Carboxypeptidase
- Lysase
- Leucine aminopeptidase
- Glycylase

25. 17. In case of Merrifield resin solid peptide synthesis, C terminal amino acid is protected by using

Mark only one oval.

- T-butyl oxy carbonyl
 T-butyl chloride
 T-butyl iodide
 T-butyl fluoride

26. 18. An example of non-reducing sugar is

Mark only one oval.

- Fructose
 Glucose
 Sucrose
 Mannose

27. 19. Glucose on treatment with HIO_4 produces

Mark only one oval.

- 5HCOOH and 1HCHO
 4HCOOH and 2HCHO
 6HCOOH
 3HCOOH and 3HCHO

28. 20. Anomers are diastereoisomers that differs in the configuration of which carbon

Mark only one oval.

C1

C2

C3

C4

29. 21. Sucrose molecule is formed by combination of

Mark only one oval.

α D (+) glucopyranoside and β D(-) Fructopyranoside

α D (+) glucopyranoside and β D(-) Fructofuranoside

α D (+) glucofuranoside and β D(-) Fructopyranoside

α D (+) glucopyranoside and β D(+) Fructopyranoside

30. 22. Alkene reacts with Iodine and PhCOOAg to produce

Mark only one oval.

Cis diol

Trans diol

Epoxide

Both cis and trans diol

31. 23. Alkyne on treatment with Na /liquid NH₃ produces

Mark only one oval.

- E-alkene
- Z-alkene
- Both E and Z alkene
- Epoxide

32. 24. Ozonolysis of acetylene produces

Mark only one oval.

- Glyoxal
- Methyl glyoxal
- Phenyl glyoxal
- Ethyl glyoxal

33. 25. If the 3 -OH groups of glycerol are esterified by more than one type of fatty acids then it is known as

Mark only one oval.

- Simple triglyceride
- Mixed triglyceride
- Steroid
- Terpenoid

34. 26. Glucose on reaction with Bromine water produces

Mark only one oval.

- Glucaric acid
- Gluconic acid
- Fructose
- Aldol

35. 27. Glucose on treatment with conc nitric acid produces

Mark only one oval.

- Gluconic acid
- Glucaric acid
- Glucosazone
- Fructose

36. 28. The reaction of glucose with phenyl hydrazine does not proceed beyond C2 due to

Mark only one oval.

- Intermolecular H bonding
- Intramolecular H bonding
- Acidity
- Basicity

37. 29. All methyl pyranosides of α -D-hexose series have same configuration at

Mark only one oval.

C1 and C5

C2 and C5

C3 and C5

C1 and C2

38. 30. The red precipitate formed when glucose is treated with Fehling's solution is

Mark only one oval.

Cupric hydroxide

Cuprous oxide

Cupric oxide

Cuprous hydroxide

39. 31. Majority of the monosaccharides found in human body are of

Mark only one oval.

L type

D type

d type

l type

40. 32. In carbohydrate which special functional groups are present?

Mark only one oval.

- Alcohol and Carbonyl groups
- Alcohol and hydrogen
- Alcohol and ester
- Alcohol and acid

41. 33. Class of carbohydrate which can not be hydrolysed further is

Mark only one oval.

- Oligosaccharide
- Polysaccharide
- Disaccharide
- Monosaccharide

42. 34. Which class of carbohydrate can be considered as non sugar?

Mark only one oval.

- Monosaccharide
- Disaccharide
- Oligosaccharide
- Polysaccharide

43. 35. Which of the following glycoside linkage is found in maltose

Mark only one oval.

- glucose-fructose
- glucose-glucose
- galactose-glucose
- glucose-gulose

44. 36. Select the odd one from the following.

Mark only one oval.

- Arabinose
- Xylose
- Lyxose
- Erythrose

45. 37. In fructose furanose ring is formed between

Mark only one oval.

- C1-C3
- C1-C4
- C2-C5
- C2-C6

46. 38. Glycosidic bond in sucrose is

Mark only one oval.

α 1-4

α 1-2

β 1-4

β 1-2

47. 39. Which one of the following is not a disaccharide?

Mark only one oval.

Sucrose

Maltose

Lactose

Cellulose

48. 40. Choose an aldo-pentose.

Mark only one oval.

Ribose

Gulose

Glucose

Fructose

49. 41. A polysaccharide formed by β 1-4 glycosidic linkage is

Mark only one oval.

- Starch
- Cellulose
- Sucrose
- Xylose

50. 42. The typical cyclic structure of glucose is α and β D

Mark only one oval.

- Glucopyranose
- Glucofuranose
- Glycoside
- Glucosamine

51. 43. Which of the following is not an aldose?

Mark only one oval.

- Ribose
- Glucose
- Fructose
- Mannose

52. 44. The general structure of all amino acids are same except for

Mark only one oval.

- Glycine
- Lysine
- Proline
- Aspartic acid

53. 45. How is the secondary structure of protein mainly stabilized?

Mark only one oval.

- Hydrogen bonding
- Vander Waal's force
- Covalent interaction
- Hydrophobic interaction

54. 46. 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

55. 47.If the peptide is sequenced using the Edman degradation, which step will be part of the procedure?

Mark only one oval.

- The Edman reagent will react with all 12 amino acids simultaneously
- Lithium borohydride will react with an α -carboxyl group.
- Phenylisothiocyanate will react with a α -amino group.
- Strong acid will be used to cleave off one modified amino acid.

56. 48. A peptide consists of lys-gly-glu.What problem might be seen when analyzing the N terminal amino acid with dinitrofluoro benzene?

Mark only one oval.

- Fluorodinitrobenzene might react with free NH_2 group of lysine
- Fluorodinitrobenzene react with any free amine group of lysine and not specifically with N terminal group
- Fluorodinitrobenzene react with glutamic acid.
- Fluorodinitrobenzene react with glycine

57. 49. Lipids are

Mark only one oval.

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

58. 50. Lipids are mainly composed of

Mark only one oval.

C,N,Br

N,Cl,Br

C,H,O

C,N,Cl

59. 51. An example of saturated fatty acid is

Mark only one oval.

Caproic acid

Capric acid

Palmitic acid

Both capric and caproic acid

60. 52. Lower fatty acid contains..... C atoms

Mark only one oval.

3-11

1-9

2-10

2-12

61. 53. An example of higher fatty acid is

Mark only one oval.

- Palmitic acid
- Butyric acid
- Stearic acid
- Both palmitic and stearic acid

62. 54. The short hand representation of linoleic acid is

Mark only one oval.

- 18:2(9,11)
- 18:2(9,14)
- 18:2(9,12)
- 18:2(9,13)

63. 55. If 3-OH groups of glycerol are esterified with 3 molecules of same fatty acid then it is known as

Mark only one oval.

- Simple triglyceride
- Mixed triglyceride
- Wax
- Mericyl palmitate

64. 56. Waxes are

Mark only one oval.

- Solid esters of long chain fatty acid only
- Solid esters of long chain fatty acid with a long monohydric alcohol
- Esters of fatty acid with glycerol
- Esters of butanal

65. 57. The composition of bee wax is

Mark only one oval.

- Sodium acetate
- Mericyl chloride
- Mericyl palmitate
- Mericyl nitrate

66. 58. The no of milligram of KOH required to neutralize the fatty acids resulting from complete hydrolysis of 1 gm of fat is known as

Mark only one oval.

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

67. 59. The mass of iodine absorbed in gm by 100 gm of fat is known as

Mark only one oval.

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

68. 60. The number of mg of KOH required to neutralize the free fatty acids present in 1 gm of fat is known as

Mark only one oval.

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

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