

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

Course Name - Biochemistry

Course Code - BP203T

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Answer all the questions. Each question carry one mark.

9. 1. Name the enzyme which is responsible for the conversion of pyruvate to phosphoenolpyruvate (PEP)?

Mark only one oval.

- Pyruvate carboxylase
- Pyruvate carboxykinase
- Glucose 6-phosphatase
- Phosphofructokinase

10. 2. Which of the following is a non-essential amino acid?

Mark only one oval.

- Methionine
- Threonine
- Leucine
- Cysteine

11. 3. Out of the following, cholesterol does not serve as a precursor for which compounds?

Mark only one oval.

- Vitamin D
- Sex hormones
- Bile salts
- Bile pigments

12. 4. Albuminuria is known as

Mark only one oval.

- Urine associated with globulin
- Albumin associated with albumin
- albumin associated with haeme
- albumin associated with alanine

13. 5. Which is the symbol of free energy.

Mark only one oval.

- G
- F
- E
- NONE

14. 6. Which of the following is false about chymotrypsin?

Mark only one oval.

- Hydrolytic cleavage of a peptide bond by chymotrypsin has two phases
- It is activated in the presence of trypsin
- It is synthesized in the thyroid gland
- Polypeptide chains in chymotrypsin are linked by S-S bonds

15. 7. Frsh arachis oil have acid value not more than.....

Mark only one oval.

- 4
- 6
- 2
- 8

16. 8. Different type of RNA except

Mark only one oval.

m-RNA

t-RNA

.r-RNA

k-RNA

17. 9. Gluconeogenesis means

Mark only one oval.

neuglocogenesis

non carbohydrate to glucose

Fat to glucose

All of the above.

18. 10. The combination of -NH and -CO leads to

Mark only one oval.

Peptide bond

Diamine bond

Di sulfide bond

None of these

19. 11. The average molecular weight of an amino acid residue in a protein is about

Mark only one oval.

128

118

110

120

20. 12. Sucrose is called sugar

Mark only one oval.

.reducing

Non reducing

keto

hexose

21. 13. DNA unwinding is done by

Mark only one oval.

Ligase

Helicase

Topoisomerase

Hexonuclease

22. 14. Glycolysis is also known as

Mark only one oval.

- EMF Pathway
- EMP pathway
- EMD pathway
- EMG pathway

23. 15. Which of the following is not a component of a phospholipid?

Mark only one oval.

- Phosphate
- Alcohol
- Glycerol
- Protein

24. 16. Random blood sugar level is

Mark only one oval.

- 80-120mg/dl
- 70-100mg/dl
- 100-140mg/dl
- 140-160mg/dl

25. 17. Which of the following reactions is required for proofreading during DNA replication by DNA polymerase III?

Mark only one oval.

- 5' to 3' exonuclease activity
- 3' to 5' exonuclease activity
- 3' to 5' endonuclease activity
- 5' to 3' endonuclease activity

26. 18. SGOT and SGPT test is done for

Mark only one oval.

- spleen
- Liver
- pancreas
- gall blader

27. 19. Name the two essential fatty acids?

Mark only one oval.

- Linoleate and linolenate
- Oleic and linoleic
- Lauric and myristic
- Arachidonic and oleic

28. 20. Diabetes happens because of which of these?

Mark only one oval.

- Your liver doesn't make enough blood sugar
- Your muscles use too much blood sugar
- Your body can't use blood sugar the way it should
- Your body makes more insulin than it needs

29. 21. What is the composition of nucleoside?

Mark only one oval.

- a sugar + a phosphate
- a base + a sugar
- a base + a phosphate
- a base + a sugar + phosphate

30. 22. Mark the CORRECT function of enzyme, Peptidase?

Mark only one oval.

- Cleave phosphodiester bond
- Cleave amino bonds
- Remove phosphate from a substrate
- Removal of H₂O

31. 23. Identify the palindrome sequence from the following?

Mark only one oval.

TATA

GAAG

CCTT

CTAG

32. 24. Purine contains.....heterocyclic rings

Mark only one oval.

two

three

one

none

33. 25. Which of the following are major sites for glycogen storage?

Mark only one oval.

Adipose tissue

Bones

Muscle and liver

Kidney and liver

34. 26. Which of the following gives rise to valine and isoleucine?

Mark only one oval.

- Pyruvate
- Glutamate
- Aspartate
- Serine

35. 27. Out of the following the one having highest redox potential is

Mark only one oval.

- Ubiquinone
- O₂
- FMN
- NAD

36. 28. Which of the following glycerophospholipid acts as a lipotropic agent?

Mark only one oval.

- Cardiolipin
- Phosphatidylserine
- Phosphatidylinositol
- Phosphatidylcholine

37. 29. Biosynthesis of triacylglycerol is known as

Mark only one oval.

- Lipolysis
- Glycerolosis
- lipogenesis
- Alkylosis

38. 30. ΔG° is defined as the

Mark only one oval.

- Residual energy present in the reactants at equilibrium
- Residual energy present in the products at equilibrium
- Difference in the residual energy of reactants and products at equilibrium
- Energy required in converting one mole of reactants to one mole of product.

39. 31. Which of the following is true about the structure of hexokinase?

Mark only one oval.

- U-shaped
- T-shaped
- E-shaped
- G-shaped

40. 32. Sodium lauryl sulfate is used as

Mark only one oval.

- detergent
- surfactant
- emulsion
- Baking soda

41. 33. Name the enzyme which catalyzes the oxidation-reduction reaction?

Mark only one oval.

- Transaminase
- Glutamine synthetase
- Phosphofructokinase
- oxidoreductase

42. 34. Glycogenolysis means

Mark only one oval.

- break down of glucose
- break down of glycogen
- glucose to glycogen
- Fats to glycogen

43. 35. Which is not a biomolecule

Mark only one oval.

- nucleotide
- Amino acid
- carbohydrate
- Sodium bicarbonate

44. 36. Which of the following is not the classified form of conjugated proteins?

Mark only one oval.

- Lipoproteins
- Glycoproteins
- Complete proteins
- Metalloproteins

45. 37. SAP- value of coconut oil is

Mark only one oval.

- 200
- 300
- 250
- 400

46. 38. Which of the following enzymes is the principal replication enzyme in E. coli?

Mark only one oval.

- DNA polymerase I
- DNA polymerase II
- DNA polymerase III
- None of these

47. 39. ATP full form

Mark only one oval.

- adenosine tri phosphate
- adenosine di phosphate
- adenosine tetra phosphate
- Adenosine triose phosphate

48. 40. Which of the following sterol is present in the cell membrane of fungi?

Mark only one oval.

- Ergosterol
- Stigmasterol
- Sitosterol
- Campesterol

49. 41. Total water filter by the kidney in 24 hrs

Mark only one oval.

- 100 liter
- 15 liter
- 180 liter
- 36 liter

50. 42. Eukaryotes differ from prokaryote in mechanism of DNA replication due to

Mark only one oval.

- Use of DNA primer rather than RNA primer
- Different enzyme for synthesis of lagging and leading strand
- Discontinuous rather than semi-discontinuous replication
- Unidirectional rather than semi-discontinuous replication

51. 43. Vitamin B1 is known as

Mark only one oval.

- Riboflavin
- thiamin
- Niacin
- none

52. 44. Which of the following form of lipids are also referred as neutral lipids?

Mark only one oval.

- Triacylglycerol
- Steroid
- Phospholipids
- Wax

53. 45. A positive benedicts test is given by

Mark only one oval.

- sucrose
- fructose
- maltose
- glucose

54. 46. Building blocks of nucleic acids are

Mark only one oval.

- Nucleotides
- Nucleosides
- Amino acids
- Histones

55. 47. DNA replication is

Mark only one oval.

- Conservative
- Non-conservative
- Semi-conservative
- None

56. 48. The total DNA contained in a living system known as

Mark only one oval.

- Genome
- transcriptome
- proteome
- palindrome sequence

57. 49. The number of double bond in arachidonic acid is

Mark only one oval.

- 1
- 2
- 4
- 6

58. 50. In a eukaryotic cell, most of the enzymes of the citric acid cycle are located in the

Mark only one oval.

- inner mitochondrial membrane
- mitochondrial matrix
- outer mitochondrial membrane
- Cytosol

59. 51. Identify the purine base of nucleic acids in the following

Mark only one oval.

- Cytosine
- Thymine
- Uracil
- Adenine

60. 52. The factor which does not affect pKa value of an amino acid is

Mark only one oval.

- The loss of charge in the α -carboxyl and α -amino groups
- The interactions with other peptide R groups
- Other environmental factors
- Molecular weight

61. 53. Name the reagent which is used in Saponification?

Mark only one oval.

- Ammonia
- Acetic acid
- NaOH/KOH
- Butanone

62. 54. Which is not harmful for health?

Mark only one oval.

- LDL
- VLDL
- HDL
- Cholesterol

63. 55. What is the site for gluconeogenesis?

Mark only one oval.

- Liver
- Blood
- Muscles
- Brain

64. 56. Nucleic acids are composed of

Mark only one oval.

- Pentose sugar, phosphate group, heterocyclic nitrogenous base.
- Hexose sugar, phosphate group, heterocyclic nitrogenous base
- Hexose sugar, sulphate gr, heterocyclic nitrogenous base.
- Hexose sugar, sulphate gr, pentacyclic nitrogenous base.

65. 57. Fructose is

Mark only one oval.

- keto hexose
- dextro rotatory
- both and b
- none

66. 58. Which of the following reaction is catalyzed by Lyase?

Mark only one oval.

- Breaking of bonds
- Formation of bonds
- Intramolecular rearrangement of bonds
- Transfer of group from one molecule to another

67. 59. Sudden infant death syndrome is also known as

Mark only one oval.

- Reye's syndrome
- Rai's syndrome
- FATTY ACYL co-A syndrome
- dehydrogenase syndrome

68. 60. Which of the following is a conjugated protein

Mark only one oval.

- Albumin
- Globulin
- Prolamine
- glycoproteins

69. 61. What are the following is not a factor responsible for denaturation of proteins?

Mark only one oval.

- pH change
- Organic solvents
- Heat
- Charge

70. 62. Primary structure of protein is due to

Mark only one oval.

- peptide bond
- Covalent bond
- amino bond
- disulfide bond

71. 63. Different types of DNA except

Mark only one oval.

- B-DNA
- Z-DNA
- A-DNA
- K-DNA

72. 64. Krebs cycle also known as

Mark only one oval.

- Citric acid cycle
- TCA cycle
- both A & B above
- none

73. 65. Lipids are naturally

Mark only one oval.

- Hydrophilic
- Hydrophobic
- Lipophilic
- lipophobic

74. 66. Peptide bond is a

Mark only one oval.

- Covalent bond
- Ionic bond
- Metallic bond
- Hydrogen bond

75. 67. The hormones responsible for regulation of water metabolism

Mark only one oval.

- Vasopressin
- aldosterone
- renin
- All of the above

76. 68. Which of the following reactions is required for proofreading during DNA replication by DNA polymerase III?

Mark only one oval.

- 5' to 3' exonuclease activity
- 3' to 5' exonuclease activity
- 3' to 5' endonuclease activity
- 5' to 3' endonuclease activity

77. 69. Which of the following is a sphingophospholipid?

Mark only one oval.

- Lecithin
- Sphingomyelin
- Plasmolegen
- Cardiolipin

78. 70. What is the solubility of lipids in water?

Mark only one oval.

- Soluble
- Partially soluble
- Insoluble
- Partially insoluble

79. 71. In anaerobic glycolysis no of ATP Production from one glucose in cell is

Mark only one oval.

4

2

6

8

80. 72. Which of the following is true about DNA polymerase?

Mark only one oval.

It can synthesize DNA in the 5' to 3' direction

It can synthesize DNA in the 3' to 5' direction

It can synthesize mRNA in the 3' to 5' direction

It can synthesize mRNA in the 5' to 3' direction

81. 73. What is the solubility of lipids in water?

Mark only one oval.

Soluble

Partially soluble

Insoluble

Partially insoluble

82. 74.The example of saturated fatty acid is

Mark only one oval.

- palmitic acid
- oleic acid
- linoleic acid
- erucic acid

83. 75.In what form does the product of glycolysis enter the TCA cycle?

Mark only one oval.

- acetyl coA
- pyruvate
- NADH
- glucose

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