

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

Course Name - General Biochemistry

Course Code - BMLT202

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Answer all the questions. Each question carry one mark.

9. 1. Which of the following is the general formula of Carbohydrates?

Mark only one oval.

- $(C_4H_2O)_n$
- $(C_6H_2O)_n$
- $(CH_2O)_n$
- $C_2H_2O)_n COOH$

10. 2. Name the major storage form of carbohydrates in animals?

Mark only one oval.

- Glycogen
- Cellulose
- Starch
- Chitin

11. 3. Which of the following are the major functions of Carbohydrates?

Mark only one oval.

- Storage
- Structural framework
- Transport Materials
- Both Storage and structural framework

12. 4. Which of the following monosaccharides is the majority found in the human body?

Mark only one oval.

- D-type
- L-Type
- LD-types
- None of the above

13. 5. Name the pathway for glucose synthesis by non-carbohydrate precursors

Mark only one oval.

- Glycogenesis
- Gluconeogenesis
- Glycogenolysis
- Others

14. 6. Which class of carbohydrates is considered as non-sugar?

Mark only one oval.

- Monosaccharides
- Polysaccharides
- Disaccharides
- Oligosaccharides

15. 7. Hemoglobin is a

Mark only one oval.

- Reproductive pigment
- Carbohydrate
- Fat
- Respiratory pigment

16. 8. Name the major storage form of carbohydrates in animals

Mark only one oval.

- Cellulose
- Glycogen
- Chitin
- Starch

17. 9. Which of the following polysaccharide employed for the assessment of kidney function

Mark only one oval.

- Albumin
- Glycogen
- Keratan sulphate
- Inulin

18. 10. Hyaluronic acid is an example of

Mark only one oval.

- Disaccharide
- Oligosaccharide
- Heteropolysaccharide
- Glycoprotein

19. 11. Sucrose is made up of two moieties

Mark only one oval.

- Glucose and Galactose
- Glucose and Fructose
- Lactose and Fructose
- None of the above

20. 12. Name a glycosidic antibiotic

Mark only one oval.

- Streptomycin
- Azithromycin
- Penicillin
- Glucovanillin

21. 13. Ribose and deoxyribose differ in structure around a single carbon namely,

Mark only one oval.

- C1
- C2
- C3
- C4

22. 14. What is the site for gluconeogenesis majorly

Mark only one oval.

- Liver
- Blood
- Muscles
- Brain

23. 15. Name the pathway for glucose synthesis by non-carbohydrate precursors:

Mark only one oval.

- Glycogenesis
- Glycolysis
- Glycogenolysis
- Gluconeogenesis

24. 16. Which of the following are major sites for glycogen storage

Mark only one oval.

- Adipose tissue
- Bones
- Muscle and liver
- Kidney and liver

25. 17. Name the hormone which is secreted in an emergency or in stress condition

Mark only one oval.

- Insulin
- Epinephrine
- Glucagon
- Melanin

26. 18. Sorbitol and Mannitol are:

Mark only one oval.

- Optical isomers
- Enomers
- Epimers
- Stereoisomers

27. 19. In Benedict test we can differentiate:

Mark only one oval.

- Glucose and Maltose
- Glucose and Sucrose
- Fructose and Glucose
- None of these

28. 20. Chitin consists of:

Mark only one oval.

- N-acetyl muramic acid
- N-acetyl glucosamine
- D-glucose unit
- N-acetyl muramic acid and N-acetyl glucosamine

29. 21. In polysaccharide, monosaccharide are joined by:

Mark only one oval.

- Peptide bond
- Glucose bond
- Glycosidic bond
- Covalent bond

30. 22. Which is not a homopolysaccharide

Mark only one oval.

- Starch
- Heparin
- Glycogen
- Cellulose

31. 23. Choose a sugar abundantly present in honey:

Mark only one oval.

- Maltose
- Fructose
- Ribulose
- Sucrose

32. 24. Seliwanoff's test is used for the identification of:

Mark only one oval.

- Glucose and Fructose
- Glucose and Lactose
- Glucose and Maltose
- None of the above

33. 25. Glucagon helps to accelerate:

Mark only one oval.

- Glycogenolysis
- Glycogenesis
- Neoglucogenesis
- None of the above

34. 26. Lactulose is disaccharide comprised of:

Mark only one oval.

- Glucose & Galactose
- Galactose & Fructose
- Sucrose & Fructose
- Fructose and Maltose

35. 27. Artificial sweetener is:

Mark only one oval.

- Sucralose
- Lactulose
- Cellobiose
- Hyaluronic acid

36. 28. Storage protein includes:

Mark only one oval.

- Glutelin
- Albumin
- Immunoglobulins
- None of these

37. 29. Which of the following amino sugar are present in the bacterial cell wall

Mark only one oval.

- N-acetylmuramic acid
- Aminoglycoside
- Azide
- Sialic acid

38. 30. Which of these amino acids are essential for infants?

Mark only one oval.

- Methionine
- Arginine and Histidine
- Valine
- Lysine and Leucine

39. 31. The following non-protein amino acid:

Mark only one oval.

- Ornithine
- Proline
- Histidine
- Lysin

40. 32. Protein is Polymer of:

Mark only one oval.

- Peptides
- Amino acids
- Carbohydrates
- Fatty acids

41. 33. Name of a imino acid:

Mark only one oval.

- Histidine
- Tryptophan
- Tyrosine
- Proline

42. 34. Which of the following is fibrous amino acid:

Mark only one oval.

- Collagen
- Chitin
- Tyrosine
- Pepsin

43. 35. What is the nature of an enzyme?

Mark only one oval.

- Vitamin
- Lipid
- Carbohydrate
- Protein

44. 36. Name the enzyme secreted by pancreas

Mark only one oval.

- Pepsin
- Chymotrypin
- Trypsin
- Alcohol dehydrogenase

45. 37. Mark the CORRECT function of enzyme, Peptidase

Mark only one oval.

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

46. 38. What is an apoenzyme?

Mark only one oval.

- It is a protein portion of an enzyme active conjugated enzyme
- It is a non-protein group
- It is a complete, biologically
- It is a prosthetic group

47. 39. Hydrolases: catalyze the ___ of various bonds

Mark only one oval.

- Oxidation
- Hydrolysis
- Isomerization
- None of the above

48. 40. Deficiency of which vitamin causes Beri-Beri?

Mark only one oval.

- Vitamin B12
- Vitamin B2
- Vitamin B6
- Vitamin B1

49. 41. Megaloblastic anemia is caused due to deficiency of _____.

Mark only one oval.

- Cobalamin
- Pyridoxine
- Niacin
- Folic acid

50. 42. Name the vitamin which functions as hormone as well as visual pigment?

Mark only one oval.

- Thiamine
- Riboflavin
- Retinol
- Folic acid

51. 43. Which of the following vitamin serves as a hormone precursor?

Mark only one oval.

- Vitamin C
- Vitamin A
- Vitamin K
- Vitamin D

52. 44. Name the structure analog of vitamin K, which is used as antagonist?

Mark only one oval.

- Warfarin
- Tocopherol
- Ergocalciferol
- β -carotene

53. 45. The first person to discover vitamin

Mark only one oval.

- Jenner
- Funk
- Mallanby
- Calvin

54. 46. Chemical messengers secreted by ductless glands are called_____

Mark only one oval.

- Lymph
- Platelets
- Plasma
- Hormones

55. 47. Which of the following is NOT an endocrine gland?

Mark only one oval.

- Hypothalamus
- Pituitary
- Parathyroid
- Sweat glands.

56. 48. Mark the one, which is NOT the precursor of the hormone?

Mark only one oval.

- Amino acids
- Cholesterol
- Phospholipids
- Proteins

57. 49. Sex hormone is a _____

Mark only one oval.

- Water soluble hormone
- Fat soluble hormone
- Protein hormone
- None of the above

58. 50. Name the gland, which releases Neurohormone

Mark only one oval.

- Hypothalamus
- Pituitary
- Thyroid
- Pancreas

59. 51. Name the energy source of the brain during starvation?

Mark only one oval.

- Fat
- Ketone bodies
- Protein
- Lipid

60. 52. Lipoprotein core contain

Mark only one oval.

- VLDL
- Triglyceride
- Phopholipid
- All of these

61. 53. A nucleotide is composed of

Mark only one oval.

- A base+sugar
- A base+a sugar+Phosphate
- A base+a phosphate
- None of these

62. 54. DNA is the genetic material in

Mark only one oval.

- Viruses
- Prokaryotes & Eukaryotes
- Only in Eukaryotes
- All of the above

63. 55. The length of one turn of DNA is

Mark only one oval.

- 3.4 A0
- 34 Ao
- 20Ao
- None of these

64. 56. Z-DNA have a

Mark only one oval.

- Double helical structure
- Zig-Zag appearance
- Uracil base
- Single strand nature

65. 57. Watson & Crick discover the DNA, They called it is:

Mark only one oval.

- Helical & Double stranded
- Double-helix
- Twisted-ladder
- Double stranded

66. 58. HDLs are synthesized in

Mark only one oval.

- Blood
- Liver
- Intestine
- Pancreas

67. 59. Cholesterol is the precursor of

Mark only one oval.

- Steroid hormones
- Vitamin A
- Bile salts
- Both Steroid hormones and Bile salts

68. 60. Synthesis of fatty acid takes place when

Mark only one oval.

- fatty acid are plentiful
- Carbohydrate is plentiful
- carbohydrate and energy are plentiful
- none of these

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