

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

Course Name -General and Ocular Biochemistry

Course Code - BOPT0203

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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. The power house of cell is called

*Mark only one oval.*

- Cell wall
- Mitochondria
- Ribosomes
- Nucleus

14. 6. Name the pathway for glucose synthesis by non-carbohydrate precursors

*Mark only one oval.*

- Glycogenesis
- Gluconeogenesis
- Glycogenolysis
- Others

15. 7. Which class of carbohydrates is considered as non-sugar?

*Mark only one oval.*

- Monosaccharides
- Polysaccharides
- Disaccharides
- Oligosaccharides

16. 8. What is the site for gluconeogenesis

*Mark only one oval.*

- Liver
- Muscles
- Blood
- Brain

17. 9. Hemoglobin is a

*Mark only one oval.*

- Reproductive pigment
- Carbohydrate
- Fat
- Respiratory pigment

18. 10. Name the major storage form of carbohydrates in animals

*Mark only one oval.*

- Cellulose
- Glycogen
- Chitin
- Starch

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. Which one of the following is a Disaccharide

*Mark only one oval.*

- Maltose
- Lactose
- Both Maltose and Lactose
- Neither Maltose nor Lactose

21. 13. Name a glycosidic antibiotic

*Mark only one oval.*

- Streptomycin
- Azithromycin
- Penicillin
- Glucovanillin



22. 14. The  $\alpha$  and  $\beta$  cyclic forms of D -glucose are referred as:

*Mark only one oval.*

- Epimers
- Anomers
- Tautomer
- Both Epimers and Anomers

23. 15. Ribose and deoxyribose differ in structure around a single care namely,

*Mark only one oval.*

- C1
- C2
- C3
- C4

24. 16. What is the site for gluconeogenesis majorly

*Mark only one oval.*

- Liver
- Blood
- Muscles
- Brain

25. 17. Name the pathway for glucose synthesis by non-carbohydrate precursors:

*Mark only one oval.*

- Glycogenesis
- Glycolysis
- Glycogenolysis
- Gluconeogenesis

26. 18. In Benedict test we can differentiate:

*Mark only one oval.*

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

27. 19. Starch consists of:

*Mark only one oval.*

- Amylose and Amylopectin
- Amylase and amylose
- Amylopectin only
- Amylodextrin and Amylose

28. 20. In polysaccharide, monosaccharide are joined by:

*Mark only one oval.*

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

29. 21. Name the hormone which is secreted in an emergency or in stress condition

*Mark only one oval.*

- Insulin
- Epinephrine
- Glucagon
- Melanin

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. Diabetes is caused due to:

*Mark only one oval.*

- Hypoglycemia
- Hyperglycemia
- Galactosemia
- Hyponatremia

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 these is a hereditary disease caused due to an error in amino acid metabolism?

*Mark only one oval.*

- Homocystinuria
- Albinism
- Phenylketonuria
- Both Homocystinuria and Phenylketonuria

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. Parkinson's Disease is linked with decreased synthesis of:

*Mark only one oval.*

- Serotonin
- Arginine
- Dopamine
- None of the above

42. 34. The metabolite excreted in alkaptonuria is:

*Mark only one oval.*

- Phenylalanine
- Bilirubin
- Alkaline phosphatase
- None of the above

43. 35. Valine is classified as:

*Mark only one oval.*

- Hydrophobic amino acid
- Hydrophilic amino acid
- Positively charged amino acid
- Hydrophobic aliphatic amino acid

44. 36. Which of the following is fibrous amino acid:

*Mark only one oval.*

- Collagen
- Chitin
- Tyrosine
- Pepsin

45. 37. Name a contractile Protein

*Mark only one oval.*

- Actin
- Arginine
- myosin
- Both Actinand myosin



46. 38. Which of the following is Hydrophilic amino acid:

*Mark only one oval.*

- Lysin
- Leucine
- Proline
- Glycine

47. 39. What is the nature of an enzyme?

*Mark only one oval.*

- Vitamin
- Lipid
- Carbohydrate
- Protein

48. 40. Name the enzyme secreted by pancreas

*Mark only one oval.*

- Pepsin
- Chymotrypin
- Trypsin
- Alcohol dehydrogenase

49. 41. Mark the CORRECT function of enzyme, Peptidase

*Mark only one oval.*

- Cleave phosphodiester bond
- Cleave amide bonds
- Remove phosphate from a substrate
- Removal of H<sub>2</sub>O

50. 42. A \_\_\_\_\_ is a biocatalyst that increases the rate of the reaction without being changed

*Mark only one oval.*

- Aluminum oxide
- Silicon dioxide
- Enzyme
- Hydrogen peroxide

51. 43. 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

52. 44. Which of this vitamin is associated with the coenzyme Biocytin?

*Mark only one oval.*

- Nicotinic acid
- Thiamine
- Pantothenic acid
- Pyridoxine

53. 45. Which of the following is not a fat-soluble vitamin

*Mark only one oval.*

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

54. 46. Deficiency of which vitamin causes Beri-Beri?

*Mark only one oval.*

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

55. 47. Megaloblastic anemia is caused due to deficiency of \_\_\_\_\_.

*Mark only one oval.*

- Cobalamin
- Pyridoxine
- Niacin
- Folic acid

56. 48. Which of the following vitamin serves as a hormone precursor?

*Mark only one oval.*

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

57. 49. Name the structure analog of vitamin K, which is used as antagonist?

*Mark only one oval.*

- Warfarin
- Tocopherol
- Ergocalciferol
- $\beta$ -carotene

58. 50. The first person to discover vitamin

*Mark only one oval.*

- Jennar
- Funk
- Mallanby
- Calvin

59. 51. Cobalt containing vitamin is

*Mark only one oval.*

- Vitamin B2
- Vitamin B6
- Vitamin B12
- Vitamin B3

60. 52. Which of the following is NOT an endocrine gland?

*Mark only one oval.*

- Hypothalamus
- Pituitary
- Parathyroid
- Sweat glands.

61. 53. Sex hormone is a \_\_\_\_\_

*Mark only one oval.*

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

62. 54. Name the hormone which is synthesized from histidine amino acid?

*Mark only one oval.*

- Histamine
- Epinephrine
- Norepinephrine
- Dopamine

63. 55. Name the gland, which releases Neurohormone

*Mark only one oval.*

- Hypothalamus
- Pituitary
- Thyroid
- Pancreas

64. 56. Triacylglycerol packed with the apolipoprotein and cholesterol in lipoprotein aggregate is called \_\_\_\_\_

*Mark only one oval.*

- Chylomicrons  
 VLDL  
 HDL  
 LDL

65. 57. What is the biosynthetic source of all steroid hormones?

*Mark only one oval.*

- Cholesterol  
 Ketone bodies  
 Carbohydrate  
 Protein

66. 58. Name the most active organs in the animal body which have the ability to synthesize triacylglycerol?

*Mark only one oval.*

- Spleen  
 Kidney  
 Liver and intestines  
 Adipose tissues

67. 59. Lipoprotein core contain

*Mark only one oval.*

- VLDL
- Triglyceride
- Phopholipid
- All of these

68. 60. What is the outcome of the accumulation of acetyl-CoA in the mitochondria of the liver?

*Mark only one oval.*

- It is used as an energy source
- It has broken down in to free fatty acids
- It gets converted to oxaloacetate
- It forms ketone bodies

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