

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

Course Name - --Biochemistry and Hematology

Course Code - BPA201

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Answer all the questions. Each question carry one mark.

9. 1.Which class of carbohydrates is considered as non-sugar?

Mark only one oval.

- Monosaccharides
- Disaccharides
- Polysaccharides
- Oligosaccharides

10. 2. Which of the following is also known as invert sugar

Mark only one oval.

- Sucrose
- Fructose
- Dextrose
- Glucose

11. 3. What is the name of the drug which inhibits Na^+/K^+ pump across the cell membrane?

Mark only one oval.

- Taxol
- Vinblastine
- Ouabain
- Quinone

12. 4. Which of the following polysaccharide employed for the assessment of kidney function

Mark only one oval.

- Albumin
- Glycogen
- Keratan sulphate
- Inulin

13. 5.Which one of the following is a Disaccharide:

Mark only one oval.

- Maltose
- Lactose
- Both (a) and (b)
- Neither (a) nor (b)

14. 6.Maltose is a made up of two moiety :

Mark only one oval.

- Glucose and Galactose
- Glucose and Fructose
- Lactose and Fructose
- All options are incorrect

15. 7.Name a glycosidic antibiotic

Mark only one oval.

- Streptomycin
- Azithromycin
- Penicillin
- Glucovanillin

16. 8.The α and β cyclic forms of D –glucose are referred as:

Mark only one oval.

- Epimers
- Anomers
- Tautomer
- Both (a) and (b)

17. 9.What is the site for gluconeogenesis as per modern concept?

Mark only one oval.

- Liver
- Blood
- Muscles
- Brain

18. 10.Name the pathway for glucose synthesis by non-carbohydrate precursors:

Mark only one oval.

- Glycogenesis
- Glycolysis
- Glycogenolysis
- Gluconeogenesis

19. 11.All test are positive for lactose except:

Mark only one oval.

- Benedict test
- Barfoed's test
- Fehling's test
- Osazon test

20. 12.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

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

Mark only one oval.

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

22. 14. Which is not a homopolysaccharide:

Mark only one oval.

- Starch
- Heparin
- Glycogen
- Cellulose

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

Mark only one oval.

- Maltose
- Fructose
- Ribulose
- Sucrose

24. 16. Which of the following amino sugar are present in the bacterial cell wall

Mark only one oval.

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

25. 17.Seliwanoff's test is used for the identification of:

Mark only one oval.

- Glucose and Fructose
- Glucose and Lactose
- Glucose and Maltose
- Lactose and Sucrose

26. 18.Which of the following is non-essential amino acid?

Mark only one oval.

- Lysine
- Leucine
- Serine
- Methionine

27. 19.Which of these amino acids are essential for infants?

Mark only one oval.

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

28. 20.Name of a imino acid:

Mark only one oval.

- Histidine
- Tryptophan
- Tyrosine
- Proline

29. 21.The metabolite excreted in alkaptonuria is:

Mark only one oval.

- Phenylalanine
- Bilirubin
- Alkaline phosphatase
- Biliverdin

30. 22.Triacylglycerol packed with the apolipoprotein and cholesterol in lipoprotein aggregate is called_____

Mark only one oval.

- Chylomicrons
- VLDL
- HDL
- LDL

31. 23.Name the energy source of the brain during starvation?

Mark only one oval.

- Fat
- Ketone bodies
- Protein
- Lipid

32. 24.Cholesterol is the precursor of

Mark only one oval.

- Steroid hormones
- Vitamin A
- Bile salts
- Both (a) and (c)

33. 25.Atherosclerosis can cause blood

Mark only one oval.

- Thinning
- Clotting
- Thickening
- none of these

34. 26.VLDL stands for

Mark only one oval.

- Very low density lipid
- Very Low Density liquid
- Very Low Density Lipoprotein
- All options are wrong

35. 27.Cholesterol is an

Mark only one oval.

- Compound lipid
- Simple lipid
- Derived lipid
- Aliphatic alcohol

36. 28.What is the biosynthetic source of all steroid hormones?

Mark only one oval.

- Cholesterol
- Ketone bodies
- Carbohydrate
- Protein

37. 29.A nucleotide is composed of

Mark only one oval.

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

38. 30.Genetic mutation occurs in

Mark only one oval.

- Protein
- RNA
- DNA
- Nucleus

39. 31.DNA is the genetic material in

Mark only one oval.

- Viruses
- Prokaryotes & Eukaryotes
- Only in Eukaryotes
- All statements are correct

40. 32. Left handed DNA is

Mark only one oval.

- A-DNA
- B-DNA
- Z-DNA
- C-DNA

41. 33. Z-DNA have a

Mark only one oval.

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

42. 34. Which of the following is not a researched means of delivering therapeutic DNA for gene therapy?

Mark only one oval.

- Polymers
- Liposomes
- Bacteria
- Viruses

43. 35. Adenine bonds with.....

Mark only one oval.

Guanine

Cytosin

Uracil

Thymine

44. 36. Watson & Crick discovered the DNA, they called it is:

Mark only one oval.

Helical & Double stranded

Double-helix

Twisted-ladder

Straight

45. 37. What is the nature of an enzyme?

Mark only one oval.

Vitamin

Lipid

Carbohydrate

Protein

46. 38.Name the enzyme secreted by pancreas:

Mark only one oval.

- Pepsin
- Chymotrypin
- Trypsin
- Both b and c

47. 39.Which of this vitamin is associated with the coenzyme Biocytin?

Mark only one oval.

- Pentathaonic acid
- Thiamine
- Biotin
- Pyridoxine

48. 40.Hydrolases: catalyze the ___ of various bonds

Mark only one oval.

- Oxidation
- Hydrolysis
- Isomerization
- Reduction

49. 41. Deficiency of which vitamin causes Beri-Beri?

Mark only one oval.

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

50. 42. Megaloblastic anemia is caused due to deficiency of _____.

Mark only one oval.

- Cobalamin
- Pyridoxine
- Niacin
- Folic acid

51. 43. Name the vitamin which functions as hormone as well as visual pigment?

Mark only one oval.

- Thiamine
- Riboflavin
- Retinol
- Folic acid

52. 44.Which of the following vitamin serves as a hormone precursor?

Mark only one oval.

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

53. 45.Scurvy is due to the deficiency of

Mark only one oval.

- Vitamin A
- Vitamin B
- Vitamin D
- Vitamin C

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

Mark only one oval.

- Lymph
- Platelets
- Plasma
- Hormones

55. 47. Adrenaline is...

Mark only one oval.

- Produced by the adrenal cortex
- Epinephrine
- Released when the parasympathetic nervous system is stimulated
- Dopamine

56. 48. Which of the following is protein hormone?

Mark only one oval.

- Oxytocin
- Insulin
- TSH
- Antidiuretic hormone

57. 49. Name the gland, which releases Neurohormone

Mark only one oval.

- Hypothalamus
- Pituitary
- Thyroid
- Pancreas

58. 50.How solid sodium carbonate be obtained from sodium carbonate solution?

Mark only one oval.

- Centrifugation
- Filtration
- It cannot be extracted
- Evaporation

59. 51.Methemoglobin is formed by oxidation of hemoglobin by:

Mark only one oval.

- Potassium permanganate
- Potassium ferricyanide
- Oxygen of air
- Hydrogen peroxide

60. 52.All the monosaccharides are optically active except:

Mark only one oval.

- Glyceraldehyde
- Fructose
- Arabinose
- Dihydroxyacetone

61. 53.Isoenzymes (Isozymes):

Mark only one oval.

- Catalyse the same reaction
- Have different mobilities on electrophoresis
- Are physically distinct forms of the same enzyme
- All statements are true

62. 54.Energy currency of the cell is:

Mark only one oval.

- GTP
- ATP
- ADP
- Glucose

63. 55.Most of the volume of normal human blood is composed of:

Mark only one oval.

- red cells
- hemoglobin
- plasma
- white cells

64. 56. Blood is stained with ___ stain

Mark only one oval.

- Methylene blue
- Safranin
- Leishman stain
- Carbol fuchsine

65. 57. Hemoglobin is a _____

Mark only one oval.

- Reproductive pigment
- Respiratory pigment
- Carbohydrate
- Fat

66. 58. Shape of red blood cells are:

Mark only one oval.

- Triconcave
- Triconvex
- Biconcave
- Ocular

67. 59. In females, number of red blood cells in one cubic millimeter of blood are

Mark only one oval.

- 1 to 2 million
- 1 to 2.5 million
- 4 to 6 million
- 4 to 4.5 million

68. 60. PCV is the _____

Mark only one oval.

- Percentage of white blood cells in circulating blood
- Percentage of platelets in whole blood
- Percentage of red blood cells in circulating blood
- Percentage of Platelets

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