

Online Examinations (Odd Sem/Part-I/Part-II Examinations 2021 - 2022)

Course Name - --Clinical Biochemistry

Course Code - BMLT302

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Answer all the questions. Each question carry one mark.

10. 1. Surface antigens on live cells can be identified by

Mark only one oval.

- RIA
- ELISA
- Electrophoresis
- Both a and b

11. 2. In enzyme-linked immunosorbent assay

Mark only one oval.

- Antibody or antigen is bound to an enzyme, which catalyzes the reaction
- Substrates in the reaction is converted to a colored end-product
- Antigen or antibody can be detected quantitatively with extremely sensitivity
- All the above

12. 3. Factors influence immunogenicity include

Mark only one oval.

- foreignness
- molecular size
- chemical composition
- all of the above

13. 4. The most abundant immunoglobulin class in serum is

Mark only one oval.

- IgM
- IgA
- IgG
- IgE

14. 5. Horse-radish peroxidase (HRPO) is a type molecule that is:

Mark only one oval.

- Primary Antibody
- Secondary Antibody
- Antigen
- Enzyme

15. 6. Microtitre Well Plate is composed of:

Mark only one oval.

- Polypropylene
- Poly vinyl Chloride
- Polystyrene
- Nylon

16. 7. Antibody binds specifically with Antigen site called

Mark only one oval.

- Paratope
- Epitope
- Epimer
- Anomer

17. 8. HIV detection is done by

Mark only one oval.

- Direct ELISA
- Sandwich ELISA
- Indirect ELISA
- Competitive ELISA

18. 9. Home pregnancy test kit is an example of:

Mark only one oval.

- Sandwich ELISA
- Indirect ELISA
- Competitive ELISA
- Direct ELISA

19. 10. The primary regulator of plasma sodium concentration is :

Mark only one oval.

- Renin
- Aldosterone
- Anti diuretic hormone (ADH)
- Insulin

20. 11. What is a major advantage of ELISA in comparison to other biological quantification techniques

Mark only one oval.

- Low specificity
- Easily available
- Detection of a molecule at a low concentration
- Cheap

21. 12. Differential centrifugation is based on the differences in _____ of biological particles of different _____.

Mark only one oval.

- Size and Density
- Sedimentation rate, sizes and density.
- Size, structure
- Mass, size

22. 13. After centrifugation of milk, the supernatant is

Mark only one oval.

- Fat
- Whey
- Casein
- Water

23. 14. SDS-PAGE works based on the principle of:

Mark only one oval.

- Electrophoretic mobility
- Mass of proteins
- Specific Gravity
- None of these

24. 15. In gel electrophoresis the dye used :

Mark only one oval.

- Ethidium Bromide
- Bromophenol blue
- Coomassie blue dye
- All of these

25. 16. Separation of restricted genomic DNA is done by

Mark only one oval.

- Gel Electrophoresis
- Immunofluorescence
- Chromatography
- None of these

26. 17. The example of local poisoning is

Mark only one oval.

- Oxalic acid
- Sulphuric acid
- Chromic acid
- None of these

27. 18. The ratio of acute to chronic toxic response refers

Mark only one oval.

- Therapeutic index
- Chronic index
- Chronocity index
- All of these

28. 19. The major treatment of Lead poisoning

Mark only one oval.

- Chronotherapy
- Chelation Therapy
- Lead replacement
- Chemotherapy

29. 20. Chronic poisoning involves

Mark only one oval.

- Multi-organ failure
- Targeted organ failure
- blood loss
- Numbness

30. 21. Which of the following metal toxicity leads to encephalopathy

Mark only one oval.

- Copper
- Iron
- Lead
- Zinc

31. 22. The compound used for Chelation Therapy_____

Mark only one oval.

- Heparin
- Tetracycline
- EDTA
- All of these

32. 23. Which Zinc salt leads to corrosive action

Mark only one oval.

- Zinc Pyrophosphate
- Zinc hydrate
- Zinc Sulphate
- Zinc Chloride

33. 24. Which zinc salt destroy smell or odur

Mark only one oval.

- Zinc hydrate
- Zinc Sulphate
- Zinc Gluconate
- Zinc Pyrophosphate

34. 25. Cosmetics the used toxic salt of zinc is

Mark only one oval.

- Zinc stearatq
- Zinc Sulphate
- Zinc Gluconate
- Zinc stearate

35. 26.Metal fume fever caused by

Mark only one oval.

- Lead oxide
- Zinc oxide
- Zinc Phosphate
- Zinc stearate

36. 27. Osmomolality is measured by

Mark only one oval.

- osmo-theromometer
- osmolith
- osmogram
- osmometer

37. 28.Ion-selectiveelectrode contains

Mark only one oval.

- Ag/AgCl reference electrode
- Glass electrode
- Hydrogen ion electrode
- All of these

38. 29. The method that detects the antibody blocking the actions of a microorganism is

Mark only one oval.

- Agglutination
- Enzyme-linked immunosorbent assay
- Neutralization
- Single radial immunodiffusion

39. 30. Live vaccines are dangerous to the following people except

Mark only one oval.

- a pregnant woman
- Teenagers.
- An immunologically incompetent host
- Patients receiving immunosuppressive drugs.

40. 31. A single & fundamental form of load cell which is basically used as a transducer in the operation of a weighing machine undergoes the conversion of -

Mark only one oval.

- Force into an electrical signal
- Pressure into an electrical signal
- Acceleration into an electrical signal
- Velocity into an electrical signal

41. 32. What solution is used to maintain sterility in labs ?

Mark only one oval.

- Sodium chloride
- Sodium cyanide
- Sodium hypochlorite
- Sodium sulphate

42. 33. Which device is used to separate the components of blood ?

Mark only one oval.

- Auto-Analyzer
- Magnetic stirrer
- Hematocrit
- Centrifuge

43. 34. An electrophoresis machine is used to -

Mark only one oval.

- Separate DNA
- Separate blood components
- Separate the bone components
- Separate the muscle fibres

44. 35. The durable material used to make heat resistance glassware is :

Mark only one oval.

- Polyethylene
- Soda lime
- Polystyrene
- Borosilicate

45. 36. Which device is used to perform Urea estimation by DAM method ?

Mark only one oval.

- Laboratory ovens
- Water bath
- Centrifuge
- Autoclave

46. 37. Which centrifuge machine is used mostly at Laboratory ?

Mark only one oval.

- Micro centrifuge
- Battery-operated centrifuge
- Electric-operated centrifuge
- All of these

47. 38. Ultracentrifuge commonly works for :

Mark only one oval.

- Separation of lipids
- Separation of lipoproteins
- Separation of fatty acids
- None of these

48. 39. At what speed do you centrifuge blood?

Mark only one oval.

- 2200-2500 RPM
- 3000-3200 RPM
- 1000-1500 RPM
- 4000 RPM

49. 40. _____ is a pressure chamber used to carry out processes at high temperature and pressure

Mark only one oval.

- Magnetic stirrer
- Autoclave
- Incubator
- Hot Air Oven

50. 41. Autoclaves are used in the medical applications to perform _____

Mark only one oval.

- Vulcanization
- Sterilization
- Heating
- Cleaning

51. 42. What is the inner surface of autoclaves made of ?

Mark only one oval.

- Mild steel
- Stainless steel
- Copper
- Alluminium

52. 43. In most laboratories the commonest test performed to estimate plasma glucose is :

Mark only one oval.

- Folin Wu test
- Fehling's test
- Hexokinase test
- Benedict test

53. 44. Microalbuminuria is present when

Mark only one oval.

- Urinary albumin is > 20 ug/min
- Urinary albumin is > 200 ug/min
- Urinary albumin is > 300 ug/min
- Urinary albumin is < 20 ug/min

54. 45. Hyperglycemia occurs in all except

Mark only one oval.

- Cushing's syndrome
- Diabetes mellitus
- Acromegaly
- Addison's disease

55. 46. Anticoagulant used to estimate glucose in a blood sample after few hours of collection

Mark only one oval.

- Heparin
- NaF
- NaF + Potassium oxalate
- Citrate

56. 47. Fluoride is used during collection of blood samples for glucose estimation because

Mark only one oval.

- It inhibits enolase
- Inhibits aldolase
- Acts as anticoagulant only
- All of the above

57. 48. HbA1C > 6.5% signifies

Mark only one oval.

- Long term uncontrolled diabetes
- Patient's diabetes is under control
- Severe acute rise of blood glucose
- Acute pancreatitis

58. 49. Best investigation to diagnose diabetes in first pregnancy

Mark only one oval.

- OGTT
- Fasting & PP blood glucose
- HbA1C
- All of these

59. 50. Cut off value for hypoglycaemia in adult is

Mark only one oval.

- Less than 50 mg/dl
- Less than 35 mg/dl
- Less than 70 mg/dl
- Less than 110 mg/dl

60. 51. Considering 10 hours after intake of food, if the blood glucose level (per 100 ml) is 100 to 125 then the person is said to be

Mark only one oval.

- Cirrhosis
- Cancerous
- Diabetic
- Pre-diabetic

61. 52. Following amino acid has highest UV light absorption

Mark only one oval.

- Cystine
- Glycine
- Tryptophan
- Serine

62. 53. Peptide bond absorbs light maximum at

Mark only one oval.

- 400 nm
- 190 nm
- 280 nm
- 260 nm

63. 54. Preferred wavelength of measuring absorbance of protein at

Mark only one oval.

- 205 nm
- 260 nm
- 280 nm
- 300 nm

64. 55. Pyrogallol red method is used for

Mark only one oval.

- Detect Mass of Protein
- Detect CSF Protein
- Detect Microalbumin
- None of these

65. 56. The most widely used method of protein estimation

Mark only one oval.

- GPO-POD Method
- Biuret method
- Bradford method
- None of these

66. 57. The normal range of serum total proteins in adults

Mark only one oval.

- 2 - 5 gm/100 ml
- 8 - 12 gm/100 ml
- 1 - 3 gm/100 ml
- 6 - 8 gm/100 ml

67. 58. BUN can be estimated by

Mark only one oval.

- Jaffe's method
- Berthelot method
- Folin-Wu method
- All of these

68. 59. BUN can be converted to Urea by the factor

Mark only one oval.

- 2.14
- 0.72
- 1.14
- 4

69. 60. Rise in blood urea in pre-renal cases is mainly due to :

Mark only one oval.

- Dehydration
- Multi organ failure
- Due to renal failure
- Increased urea synthesis

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