

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

Course Name - --Applied Clinical Biochemistry

Course Code - BMLT403

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Answer all the questions. Each question carry one mark.

9. 1. The main hormone secreted by the Thyroid gland

Mark only one oval.

- T4
- T3
- T4 and T3 Both
- TSH

10. 2. Name the condition marked by a low TSH?

Mark only one oval.

- Hypothyroidism
- Hyperthyroidism
- Goitre
- Thyroid Cancer

11. 3. Medications for hypothyroidism include treatment that:

Mark only one oval.

- Replaces insulin
- Replaces ADH
- Replaces TH
- Replaces surfactant

12. 4. Which of these diseases is not related to thyroid glands?

Mark only one oval.

- Cretinism
- Myxoedema
- Goitre
- Acromegaly

13. 5. _____ encloses thyroid, responsible for its movement during swallowing

Mark only one oval.

- Prevertebral fascia
- Pretracheal fascia
- Investing layer of the deep cervical fascia
- Superficial fascia

14. 6. The main cell type which produces CSF is the

Mark only one oval.

- Astrocyte
- Basket Cell
- Ependymal Cell
- Purkinje Cell

15. 7. The main compartments which hold CSF in the brain are called

Mark only one oval.

- Arteries Cavities
- Chambers
- Jim
- Ventricles

16. 8. The most abundant material present on CSF will be

Mark only one oval.

- Magnesium
- Potassium
- Calcium
- Chloride

17. 9. In Viral meningitis the predominant cell in CSF is

Mark only one oval.

- Monocyte
- Lymphocyte
- eosinophil
- Nutrophil

18. 10. Otorrhea related to

Mark only one oval.

- leakage of CSF from ear
- leakage of CSF from urine
- leakage of CSF from nose
- leakage of CSF from brain

19. 11. During a lumbar puncture the doctor has noticed that the specimen was red in the beginning then it changes latter, which on of the following could explain this?

Mark only one oval.

- the patient has Subarachnoid hemorrhage (SAH)
- he has injured a blood vessel during the needle insertion "Traumatic tap"
- this is normal
- None of these

20. 12. What should you do with the remnant of a CSF specimen ?

Mark only one oval.

- preserve it with fluoride ion
- get rid of it
- preserve it with anticoagulant
- None of these

21. 13. Xanthochromia causes

Mark only one oval.

- Bacterial meningitis
- Subarachnoid hemorrhage
- Taumatic tap
- Viral meningitis

22. 14. All of the following CSF findings are present in tuberculous meningitis, except:

Mark only one oval.

- Raised protein levels
- Low chloride levels
- Raised sugar levels
- None of these

23. 15. In which condition is lumbar puncture not helpful in diagnosis?

Mark only one oval.

- Meningitis
- Epilepsy
- TB
- Multiple sclerosis

24. 16. At which spinal vertebral interspaces level is lumbar puncture not performed?

Mark only one oval.

- L1-L2
- L2-L3
- L3-L4
- L4-L5

25. 17. Which is the best way to position a patient for lumbar puncture

Mark only one oval.

- Prone
- Sitting
- Left lateral
- Right lateral

26. 18. Serum alkaline phosphatase levels are increased in _____?

Mark only one oval.

- Osteoarthritis
- Dentinogenesis imperfecta
- Rheumatoid arthritis
- Paget's disease

27. 19. In ALPP isozymes relate to

Mark only one oval.

- intestinal
- tissue
- germ cell
- Placenta

28. 20. The best liver function test is:

Mark only one oval.

- AST/ALT
- Alkaline phosphatase
- Bilirubin
- INR

29. 21. Which of the following is the nonfunctional plasma enzymes increased in alcoholic subjects?

Mark only one oval.

- Alkaline phosphatase
- Acid Phosphatase
- Lactate dehydrogenase
- Gamma-glutamyltransferase

30. 22. All of the following statement is true concerning urobilinogen except:

Mark only one oval.

- Produced by oxidative action of intestinal bacteria.
- Undergoes significant enterohepatic circulation.
- Urinary levels increased in biliary obstruction.
- Fecal levels decreased in biliary obstruction.

31. 23. The biochemical investigation of the blood specimen showed Bilirubin- 4.5 mg/dl, ALT- 150 IU/L, AST- 200 IU/L, Albumin- 25 mg/dL. What is the likely biochemical diagnosis?

Mark only one oval.

- Hemolytic Jaundice
- Acute hepatic disease
- Chronic hepatic disease
- Obstructive liver disease

32. 24. The PCR technique was developed by_____.

Mark only one oval.

- Kohler
- Altman
- Milstein
- Kary Mullis

33. 25. Thermus aquatics is the source of _____.

Mark only one oval.

- Vent polymerase
- Primase enzyme
- Taq polymerase
- Both Vent polymerase and Taq polymerase

34. 26. Reverse transcription PCR uses _____.

Mark only one oval.

- RNA as a template to form DNA
- mRNA as a template to form cDNA
- DNA as a template to form ssDNA
- All of these

35. 27. At what temperature does annealing of DNA and primer take place?

Mark only one oval.

- 54°C
- 96°C
- 42°C
- 74°C

36. 28. Polymerase used for PCR is extracted from _____

Mark only one oval.

- Homo sapiens
- Thermus aquaticus
- Escherichia coli
- Saccharomyces cerevisiae

37. 29. Which of the following is the first and the most important step in the polymerase chain reaction?

Mark only one oval.

- Annealing
- Primer extension
- Denaturation
- None of these

38. 30. Which of the following is not a thermostable polymerase?

Mark only one oval.

- pfu polymerase
- Taq polymerase
- Vent polymerase
- DNA polymerase III

39. 31. Which of the following is an application of polymer chain reaction?

Mark only one oval.

- Site-directed mutagenesis
- Site-specific recombination
- Site-specific translocation
- All of the these

40. 32. Which of the following is a mismatch?

Mark only one oval.

- Polymerase – Taq polymerase
- Template – double stranded DNA
- Primer – oligonucleotide
- Synthesis – 5' to 3' direction

41. 33. What type of bonds hold the two strands of DNA together?

Mark only one oval.

- Hydrogen bonds
- Covalent bonds
- Dipole-Dipole bonds
- Ionic bonds

42. 34. If the primer sequence is TCG, what section of DNA will it anneal?

Mark only one oval.

- AGC
- CAT
- GAC
- ATC

43. 35. In DNA extraction, _____ is included for chelating the _____ ions needed for enzymes _____ to prevent degradation of DNA.

Mark only one oval.

- Chelating agent, Mg²⁺, ribonuclease
- EDTA, Mg²⁺, deoxyribonuclease
- Enzyme, Mg²⁺, deoxyribonuclease
- EDTA, Ca²⁺, deoxyribonuclease

44. 36. Which of the following is not a method to remove contaminant protein from sample solution?

Mark only one oval.

- Centrifugation
- Shaking the solution gently with water-saturated phenol
- Shaking the solution gently with phenol/chloroform mixture
- Washing with buffer containing EDTA

45. 37. What kind of cells is used for extraction of DNA in the experiment?

Mark only one oval.

- Red blood cells
- Skin cells
- Liver cells
- Buccal cells

46. 38. Phenol used in DNA extraction

Mark only one oval.

- precipitate DNA and leave protein in aq solution
- ppt RNA and leave DNA in solution
- ppt cell debris
- ppt protein and leave nucleic acid

47. 39. Which of the following is used for purifying DNA

Mark only one oval.

- Chloroform
- CTAB
- Diphenylamine
- dansyl chloride

48. 40. For isolation of DNA from plant the suitable method is

Mark only one oval.

- CTAB method
- SDS-phenol extract
- SDS-Proteinase K treatment
- all of these

49. 41. Which of these dyes could you use to visualise DNA run on an agarose gel?

Mark only one oval.

- Ponceau S
- Ethidium Bromide
- Coomassie blue
- Crystal violet

50. 42. You are conducting an experiment from tissue from patients obtained after surgery. Which steps are likely to give the biggest variability in a qRT-PCR assay?

Mark only one oval.

- RNA isolation from samples
- Patient-to-patient variability
- Sample storage prior to RNA isolation
- All of these

51. 43. Sample identification correlates with all except

Mark only one oval.

- Vacutainer
- Bar coding
- blood vials
- colorimeter

52. 44. In automation CFA means

Mark only one oval.

- Continuous fluid processing
- Continuous flow processing
- Constant flow processing
- None of these

53. 45. Discrete analyzer uses

Mark only one oval.

- Air bubbles separate samples
- No carry over effect of samples
- Most versatile analyzer
- Improved communication

54. 46. Pretend you are working in a medical lab and you are drawing a blood sample from a patient. What phase of the medical lab are you performing when you are taking this sample of blood?

Mark only one oval.

- Preanalytical
- Postanalytical
- Quality control
- none of these

55. 47. Which of the following is a set of regulatory standards for clinical and medical labs that were created to help to make sure labs maintain quality assurance?

Mark only one oval.

- Clinical lab improvement amendments (CLIA)
- Health Insurance Portability and Accountability Act (HIPPA)
- Procedure manual
- Standard operating procedures (SOPs)

56. 48. In viral meningitis the _____ level is normal

Mark only one oval.

- lymphocyte
- glucose
- leukocyte
- All of these

57. 49. Before GTT the drugs patient should avoid

Mark only one oval.

- immunosuppressive drugs
- steroids
- beta-blockers
- All of these

58. 50. Which of the following is not a type of Spectroscopy?

Mark only one oval.

- Gamma ray
- X ray
- Nuclear magnetic resonance
- Sound

59. 51. How is wave number of electromagnetic radiation related to wavelength?

Mark only one oval.

- It is the reciprocal of wavelength
- It is directly proportional to wavelength
- It is not related to wavelength
- It is equal to wavelength

60. 52. DNA extraction requires _____ to lyse the epithelial cells and to degrade compounds inhibitory to amplification.

Mark only one oval.

- Freezing
- Heat treatment
- Enzyme
- Mechanical shearing

61. 53. To diagnosis myocardial infraction the enzyme predominantly responsible for

Mark only one oval.

- Alanine transaminase
- Aspartate transaminase
- creatine kinase
- All of these

62. 54. Acute pancreatitis determining enzymes involve

Mark only one oval.

- Amylase
- Lipase
- both Amylase and Lipase
- None of these

63. 55. In alcoholism, this enzyme is elevated

Mark only one oval.

- acid phosphatase
- hepatitis
- serum glutamate pyruvate transaminase
- glutamyl transpeptidase

64. 56. This enzyme was first isolated and purified in the form of crystals

Mark only one oval.

- Urease
- pepsin
- Amylase
- Ribonuclease

65. 57. The enzyme that joins a two strand of nucleic acid

Mark only one oval.

- Polymerase
- Ligase
- helicase
- Syntharase

66. 58. Enzyme complex involved in alcoholic fermentations

Mark only one oval.

- Invertase
- Zymase
- Lipase
- Amylase

67. 59. Zymogen is a

Mark only one oval.

- vitamin
- hormone
- modulator
- Enzyme precursor

68. 60. Zn^{+2} is an inorganic activator for enzyme

Mark only one oval.

- Carbonic anhydrase
- Phosphatase
- Chymotrypsin
- Lactase

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