

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

Course Name - General Pathology and Microbiology

Course Code - BMLT203

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Answer all the questions. Each question carry one mark.

9. 1. Gram staining was developed by

Mark only one oval.

- Louis Pasteur
- Anton Leeuwenhoek
- Christian Gram
- Joseph Lister

10. 2. Which of the following statement is true regarding Gram (+) bacteria

Mark only one oval.

- Cell wall has a thick peptidoglycan layer
- Lipid is absent or less
- Polysaccharide is present
- All of these

11. 3. After ethanol treatment, Gram (-) bacteria can be visualized

Mark only one oval.

- Only upon counter staining with Safranin
- In violet color of Crystal violet
- Only upon addition of iodine
- None of these

12. 4. Bacteria synthesize loose amorphous organic exopolymer which is deposited outside and tightly to cell wall called

Mark only one oval.

- Capsule
- Pili
- Outer membrane
- Cell wall

13. 5. Main site for *S. aureus* colonization is

Mark only one oval.

- Skin
- Nose
- Mucous
- Eye

14. 6. Gram-negative bacteria are usually resistant to?

Mark only one oval.

- Streptomycin
- Tetracyclin
- Penicillin
- Ampicillin

15. 7. *Bacillus* is a genus of bacteria that also refers to what cell shape?

Mark only one oval.

- Spherical
- Sarcina
- Comma
- Rod

16. 8. Under microscope, which organism would appear as a grape-like cluster of round cells?

Mark only one oval.

- Vibrio
- Staphylococcus
- Streptococcus
- Sarcina

17. 9. The ability of bacteria to change their morphological form frequently is referred to as

Mark only one oval.

- Lysogeny
- Pleomorphism
- Alteromorphism
- None of these

18. 10. Bacterial cell wall is made up of

Mark only one oval.

- Chitin
- Peptidoglycan
- Slime layer
- Cellulose

19. 11. What is the correct order of staining reagents in Gram-Staining?

Mark only one oval.

- Crystal violet--alcohol--iodine solution--safranin
- Crystal violet--safranin--alcohol--iodine solution
- Iodine solution--crystal violet--alcohol--safranin
- Crystal violet--iodine solution--alcohol--safranin

20. 12. Bacterial flagella is made up of

Mark only one oval.

- Chitin
- Tubulin
- Microtubule
- Flagellin

21. 13. Extra chromosomal, double-stranded, self-replicating, circular DNA molecule is

Mark only one oval.

- Phagemid
- Plasmid
- Cosmid
- None of these

22. 14. Growth curve of bacteria consists of:

Mark only one oval.

- 6 distinct phases
- 8 distinct phases
- 4 distinct phases
- 2 distinct phases

23. 15. Generation time of Escherichia coli is

Mark only one oval.

- 20 h
- 20 min
- 60 min
- 1 day

24. 16. The organism which grows best above 45°C are called

Mark only one oval.

- Psychrophilic
- Mesophilic
- Thermophilic
- All of these

25. 17. Phase of bacterial growth in which bacterial parent cell does not divide but metabolic activity is vigorous, named as

Mark only one oval.

- Log phase
 Lag phase
 Stationary phase
 Death phase

26. 18. During exponential phase, growth rate is _____

Mark only one oval.

- Same as generation time
 Reciprocal of generation time
 Time required for population to double
 Rate of doubling population

27. 19. In death phase there is a remarkable decrease in number of

Mark only one oval.

- Bacteria
 Viable bacteria
 Progeny
 Dividing bacteria

28. 20. What medical term describes an abnormally rapid rate of respiration?

Mark only one oval.

- Apnea
- Tachypnea
- Hypopnea
- Dyspnea

29. 21. Gram positive spore-forming Anaerobic Bacilli are all classified as _____

Mark only one oval.

- Bacteroides
- Porphyromonas
- Clostridium
- None of these

30. 22. Which of the following method can be used to determine the number of bacteria quantitatively?

Mark only one oval.

- Streak-plate
- Spread-plate
- All of these
- None of these

31. 23. Nichrome loop is used in which of the following techniques?

Mark only one oval.

- Streak-plate
- Spread-plate
- Roll-tube technique
- Pour-plate

32. 24. In pour-plate method, the medium should be maintained at what temperature?

Mark only one oval.

- 37 degree C
- 45 degree C
- 67 degree C
- 0 degree C

33. 25. Bacteria & fungi multiply best:

Mark only one oval.

- Below 16 degree C
- Above 38 degree C
- Between 16-38 degree C
- None of these

34. 26. _____ is used to decolorize the carbol fuchsin in the acid fast stain procedure

Mark only one oval.

- Mycolic acid
- Carbol fuchsin
- Acid alcohol
- A. None of these

35. 27. A visible cluster of cells that have arisen from one parent cell growing on the surface of a growth medium is called a:

Mark only one oval.

- Inoculum
- Colony
- Coccus
- Bacterium

36. 28. Sterilization is done by autoclave, consisting exposure to steam, about

Mark only one oval.

- 100°
- 170°
- 220°
- 121°

37. 29. Device that uses steam to sterilize equipment and other objects

Mark only one oval.

- Autoclave
- Hot air oven
- All of these
- None of these

38. 30. Alcohol serves as

Mark only one oval.

- Sporicidal to skin
- Bactericidal to skin
- Antiseptic to skin
- None of these

39. 31. ___ used for fumigation in OT. Sterilizing instrument

Mark only one oval.

- Formaldehyde
- Phenol
- Halogen
- None of these

40. 32. Sterilization is making a substance free from all microorganisms

Mark only one oval.

- Both in vegetative and sporing state
- Only in vegetative state
- Only in sporing state
- None of these

41. 33. Stuart's and Amies medium are

Mark only one oval.

- Solid medium
- Liquid medium
- Semi-solid medium
- Biphasic medium

42. 34. The role of bacteria in causing disease was demonstrated by

Mark only one oval.

- Robert Koch
- Joseph Lister
- Louis Pasteur
- Paul Ehrlich

43. 35. Outcome of acute inflammation

Mark only one oval.

- Severity of tissue damage
- Type of agent that caused tissue damage
- Regeneration
- All of these

44. 36. The process by which living tissues react to injury is called

Mark only one oval.

- Inflammation
- Repair
- Regeneration
- None of these

45. 37. When the inflammation process is prolonged then it is called

Mark only one oval.

- Subacute
- Chronic
- All of these
- None of these

46. 38. Fibrinous inflammation is a type of :

Mark only one oval.

- Chronic inflammation
- Subacute inflammation
- Acute inflammation
- Suppurative inflammation

47. 39. Common cause of primary chronic inflammation:

Mark only one oval.

- Tuberculosis
- Leprosy
- Auto-immune disease
- All of these

48. 40. Resolving power of a microscope is a function of _____

Mark only one oval.

- Numerical aperture of lens system
- Wavelength of light used
- Refractive index
- Both wavelength of light used and numerical aperture of lens system

49. 41. The greatest resolution in light microscopy can be obtained with _____

Mark only one oval.

- Shortest wavelength of visible light used and an objective with the maximum numerical aperture
- Shortest wavelength of visible light used
- An objective with minimum numerical aperture
- Longest wavelength of visible light used

50. 42. In fluorescence microscopy, which of the following performs the function of removing all light except the blue light?

Mark only one oval.

- Exciter filter
- Barrier filter
- Dichroic mirror
- Mercury arc lamp

51. 43. In light microscopy, which of the following is used as fixatives prior to staining technique?

Mark only one oval.

- Osmic acid
- Glutaraldehyde
- Heat
- Osmic acid, glutaraldehyde, heat

52. 44. When you focus on a new specimen, always begin with

Mark only one oval.

- Low power and coarse adjustment
- Low power and fine adjustment
- High power and coarse adjustment
- High power and fine adjustment

53. 45. Which part of the light microscope controls the intensity of light entering the viewing area?

Mark only one oval.

- Coarse adjustment screw
- Fine adjustment screw
- Condenser lens
- Diaphragm

54. 46. In Phase contrast microscopy, the rate at which light enters through objects is_____

Mark only one oval.

- Constant
- Inversely proportional to their refractive indices
- Directly proportional to their refractive indices
- Exponentially related to their refractive indices

55. 47. The transmission electron microscope has the greatest resolving power because it uses an electron beam to view the sample instead of a light beam. The electron beam is used because

Mark only one oval.

- Electrons have longer wavelengths than light waves
- Electrons do not penetrate the sample
- Electrons have shorter wavelengths than light waves
- Electrons are less invasive.

56. 48. The total magnification of a microscope is calculated by:

Mark only one oval.

- Multiplication of the objective lens and ocular lens magnification powers
- Addition of the objective lens and ocular lens magnification powers
- Multiplication of the objective lens and condenser lens magnification powers
- The objective lens power squared

57. 49. Name the organisms that is/are an important cause of UTI (urinary tract infections):

Mark only one oval.

- Klebsiella pneumoniae
- Escherichia coli
- Proteus mirabilis
- All of these

58. 50. The coagulase test is used to differentiate _____

Mark only one oval.

- Staphylococcus epidermis from Neisseria meningitidis
- Staphylococcus aureus from Staphylococcus epidermis
- Streptococcus pyogenes from Staphylococcus aureus
- Streptococcus pyogenes from Enterococcus faecalis

59. 51. The first vascular response to injury is _____

Mark only one oval.

- Arteriolar vasoconstriction
- Slowing of the circulation
- Venular dilatation
- Capillary enlargement

60. 52. Which of the following cell types would be most characteristic of the inflammatory response accompanying a leaking silicone breast implant:

Mark only one oval.

- Eosinophil
- Mast cell
- Giant cell
- Plasma cell

61. 53. Any of the following may be either an etiology or an outcome of venous thrombosis of the lower extremities except:

Mark only one oval.

- Sudden death
- A protein C or S deficiency
- A femoral intravenous catheter
- Thrombocytopenia

62. 54. Which substance functions intracellularly in cells involved in wound healing is:

Mark only one oval.

- Fibronectin
- Tyrosine kinase
- Collagen
- Laminin

63. 55. Which disease is not caused by excessive rate of apoptosis:

Mark only one oval.

- AIDS
- Cancer
- Sneezing
- Atrophy

64. 55. Programmed cell death is termed as _____

Mark only one oval.

- Apoptosis
- Cell cycle
- Oxidative stress
- Cell division

65. 57. Prolonged ischemia is most characteristic of:

Mark only one oval.

- Acute myocardial infraction
- Tuberculosis
- Acute pancreatitis
- Cerebral infarct

66. 58. Which of the following terms refer to a malignant tumor of mesenchymal origin?

Mark only one oval.

- Carcinoma
- Hepatoma
- Hematoma
- Sarcoma

67. 59. Pathology is

Mark only one oval.

- The study of human brain
- The study of bones
- The study of blood
- The study of disease

68. 60. Tachycardia refers to

Mark only one oval.

- Rapid heart rate
- Slow heart rate
- Heart murmur
- Irregular heart rate

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