



# Vadodara Municipal Corporation

## EXAMINATION OF LABORATORY TECHNICIAN



Questions : 100  
Marks : 200  
Negative Marks : (-0.5)

Please read the instructions carefully before attending the Question paper.

1. Under the GPMC Act, the following officers carry out duties assigned by the Municipal Commissioner except:
  - (A) Deputy Municipal Commissioner
  - (B) Chief Auditor
  - (C) Assistant Municipal Commissioner
  - (D) Chief Accounts Officer
2. As per the GPMC Act, the chapter which outlines Sanitary Provisions is?
  - (A) XVIII
  - (B) XV
  - (C) XX
  - (D) XXI
3. As per the GPMC Act, a councillor can resign from his office by giving notice in writing to?
  - (A) Commissioner
  - (B) Mayor
  - (C) Standing Committee Chairman
  - (D) Corporation
4. The usual time limit for registration of Birth and death event is?
  - (A) 15 days
  - (B) 21 days
  - (C) 10 days
  - (D) 30 days
5. As per GPMC Act, the Registrar General of the city for registration of Births and Deaths is?
  - (A) Deputy Municipal Commissioner
  - (B) Medical Officer of Health
  - (C) Assistant Municipal Commissioner
  - (D) All of the Above
6. Full form of The GPMC Act is?
  - (A) Gujarat Provisional Municipal Corporations Act
  - (B) Gujarat Provincial Municipal Corporations Act
  - (C) Gujarat Project and Maintenance for Corporations Act
  - (D) Gujarat Provinces and Municipalities Commissioning Act
7. As per the GPMC Act, frequency of cleaning streets in the city is?
  - (A) Once a week
  - (B) Once in two days
  - (C) Daily
  - (D) Twice a week
8. As per the GPMC Act, the Commissioner has power to inspect premises for sanitary purpose under which section?
  - (A) 284
  - (B) 296
  - (C) 275
  - (D) 324
9. All are elected members in a corporation except?
  - (A) Mayor
  - (B) Chairman, Standing Committee
  - (C) Deputy Mayor
  - (D) Municipal Secretary
10. In case of disease outbreak, Commissioner may impose special measures for control with sanction from?
  - (A) Corporation
  - (B) Mayor
  - (C) State Government
  - (D) Standing Committee
11. Giemsa stain contains:
  - (A) Azure and methylene blue
  - (B) Eosin and gentian violet
  - (C) Azure B, eosin and methylene blue
  - (D) Gentian violet
12. The procedure of differential staining of bacteria was developed by
  - (A) A.H. Gram
  - (B) H.C. Gram
  - (C) N.C. Gram
  - (D) H.A. Gram
13. Causes spurious decrease in MCV:
  - (A) Cryofibrinogen
  - (B) Hyperglycemia
  - (C) Auto agglutination
  - (D) High WBC count
14. Antigen-antibody reactions are
  - (A) Reversible
  - (B) Irreversible
  - (C) Specific
  - (D) Both a and b
15. Father of microbiology is?
  - (A) Louis Pasteur
  - (B) Lister
  - (C) A.V. Leeuwenhoek
  - (D) Robert Koch
16. Normal Adult Hb A contains the following polypeptide chains:
  - (A) alpha and beta
  - (B) alpha and epsilon
  - (C) alpha and delta
  - (D) alpha and brotherton
17. What is the strength of the bond between antigen and antibody?
  - (A) Affinity
  - (B) Avidity
  - (C) Covalent
  - (D) None of these
18. The test used for detection of typhoid fever is:
  - (A) WIDAL test
  - (B) ELISA
  - (C) Rosewaller test
  - (D) Western blotting
19. The differences between Gram positive and Gram negative bacteria is shown to reside in the:
  - (A) Cell wall
  - (B) Nucleus
  - (C) Cell membrane
  - (D) Mesosomes
20. What is the major metabolically available storage form of iron in the body?
  - (A) Hemosiderin
  - (B) Ferritin
  - (C) Transferrin
  - (D) Hemoglobin

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21. Allergic reactions are frequently associated with an increase in the presence of:  
(A) Lymphocytes (B) Neutrophils  
(C) Monocytes  (D) Eosinophils
22. Intermediate group of pathogen between bacteria and viruses which are intracellular parasites are called:  
 (A) Mucoplasmas (B) Rickettsias  
(C) Prions (D) Virusoides
23. The most frequent cause of needle punctures is:  
 (A) Patient movement during venepuncture (B) Improper disposal of phlebotomy equipment  
(C) Inattention during removal of needle after venepuncture (D) Failure to attach needle firmly to tube holder
24. During the Medullary Phase of hematopoietic development, which bone is the first to show hematopoietic activity?  
(A) Femur (B) Iliac Crest  
(C) Skull (D) Clavicle
25. Amoebic dysentery in humans is caused by  
(A) Plasmodium (B) Paramecium  
(C) Yeast  (D) Entamoeba histolytica
26. Which anaemia is classified as not being able to use iron properly to synthesize haemoglobin because of a inherited cause  
 (A) Iron deficiency anaemia (B) Hypochromic anaemia  
(C) Aplastic anaemia (D) Nutritional anaemia
27. Gram staining is an example for:  
(A) Simple staining  (B) Differential staining  
(C) Negative staining (D) None of these
28. Gram positive bacteria appear as  
(A) Pink  (B) Violet  
(C) Both a & b (D) None of these
29. The capacity of a given strain of microbial species to produce disease is known as:  
(A) Pathogen (B) Virulence  
(C) Infection (D) None of these
30. Local immunity is important in  
(A) Influenza (B) Allergy  
(C) Polio  (D) All of these
31. Warfarin should be used with caution in the following:  
(A) Alcoholic liver disease (B) Gastrointestinal bleeding  
(C) Recent neurosurgery (D) Liver impairment
32. Culture media containing serum is sterilized by:  
(A) Micropore filter  (B) Autoclaving  
(C) Gamma radiation (D) Centrifugation
33. A facultative anaerobe is:  
(A) Only grow anaerobically (B) Only grow in the presence of O<sub>2</sub>  
 (C) Ordinarily an anaerobe but can grow with O<sub>2</sub> (D) Ordinarily an aerobe but can grow in absence of O<sub>2</sub>
34. Which of the following WBC's is capable of phagocytosis?  
(A) Basophil (B) Eosinophil  
(C) Lymphocyte  (D) Neutrophil
35. Tuberculosis is a:  
(A) Water borne disease  (B) Air borne disease  
(C) Food borne disease (D) Arthropod borne disease
36. Mesosomes are also known as:  
(A) Mitochondria (B) Endoplasmic reticulum  
(C) Plasmids  (D) Chondroids
37. Which of the following types of microscopy is valuable in the identification of crystals that are able to rotate light?  
(A) Compound bright field  (B) Dark field  
(C) Polarizing (D) Phase contrast
38. Hydroxyurea:  
(A) Decreases nitric oxide (B) decreases increases neutrophil and monocytes  
(C) decreases hemoglobin production (D) inhibits DNA synthesis by acting as a ribonucleotide reductase inhibitor
39. In malaria the form of plasmodium transmitted to man from mosquito is:  
 (A) Sporozoites (B) Gametocytes  
(C) Merozoites (D) Trophozoites

9-12-15 15:25



# Vadodara Municipal Corporation

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PAPER SERIES  
**A**

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40. The lipids of the RBC membrane are arranged:
- (A) In chains beneath a protein exoskeleton (B) So that the hydrophobic portions are facing the plasma
- (C) In a hexagonal lattice (D) In two layers that are not symmetric in composition
41. Which of the following serum component is an indicator of post infection and subsequent immunity to hepatitis B-viral infection:
- (A) HBS Ag (B) HBC Ag  
 (C) Anti HBS (D) Anti HBC
42. Which one the following is a DNA virus?
- (A) Hepatitis A  (B) Hepatitis B  
(C) Hepatitis C (D) Hepatitis D
43. Immunity is life-long following:
- (A) Diphtheria (B) Tetanus  
 (C) Measles (D) Yellow fever
44. Antiseptic methods were first introduced by?
- (A) Lord Lister (B) Iwanowski  
 (C) Beijerinck (D) Edward
45. Which of the following would correlate with an elevated ESR value?
- (A) Osteoarthritis (B) Polycythaemia  
 (C) Decreased globulins (D) Inflammation
46. Tinea capitis is
- (A) Ring worm of scalp (B) Ring worm of the foot  
(C) Ring worm of non-hairy skin of body  (D) Both a and c
47. Bacterial transformation was discovered by:
- (A) Ederberg and Tatum (B) Beadle and Tatum  
 (C) Griffith (D) None of these
48. A 1:20 dilution was made in a unopette, with glacial acetic acid as the diluent. The four corner squares on BOTH sides of the haemocytometer are counted for a total of 100 cells. What is the total WBC ( $\times 10^9/L$ )?
- (A) 0.25 (B) 2.5  
(C) 5 (D) 10
49. Which of the following is the most specific in diagnosis of AIDS?
- (A) IHA  (B) Western blot  
(C) ELISA (D) Immuno electrophoresis
50. Which one of the following fungi is the most serious threat in a bone marrow transplant unit?
- (A) Candida albicans (B) Aspergillus  
(C) Blastomyces (D) Cryptococcus
51. AIDS virus is
- (A) RNA virus (B) DNA virus  
 (C) Retro virus (D) Entero virus
52. Gram negative bacteria appear as
- (A) Pink (B) Violet  
(C) Both a & b (D) None of these
53. The motile bacteria is:
- (A) Salmonella typhi (B) Klebsiella pneumoniae  
(C) Bacillus anthracis (D) Shigella flexneri
54. Interferon is composed of
- (A) Lipids (B) Lipoprotein  
(C) Glycoprotein (D) Nucleic acid
55. Bacteria multiply by
- (A) Spore formation  (B) Simple binary fission  
(C) Conjugation (D) Gametes
56. Which of the following is called Serum Hepatitis?
- (A) HCV (B) HAV  
 (C) HBV (D) HIV
57. The antibody that is first formed after infection is:
- (A) IgG  (B) IgM  
(C) IgD (D) IgE
58. This fatal disorder results from clot/thrombus formation in the blood circulation?
- (A) Thromboembolism (B) DVT  
(C) Pulmonary embolism (D) All of the above
59. Which of the following cells may develop in sites other than the bone marrow?
- (A) Monocyte (B) Lymphocyte  
 (C) Megakaryocyte (D) Neutrophil
60. After the microscope has been adjusted for Kohler illumination, light intensity should never be regulated by using the...
- (A) Rheostat  (B) Condenser  
(C) Kohler magnifier (D) Neutral density filter
61. Pigment bearing structure of bacteria are:
- (A) Chromophores  (B) Mesosomes  
(C) Mitochondria (D) Plasmids



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62. The viruses that live as parasites on bacteria are called:  
 (A) Fungi (B) Commensals  
 (C) Bacteriophages (D) None of these
63. Result of Haemoglobin test is expressed as:  
 (A) mg/dL  (B) g/dL  
 (C) mg/L (D) g/mL
64. Bacillus is an example of  
 (A) Gram positive bacteria  (B) Gram negative bacteria  
 (C) Virus (D) Viroid
65. Pasteur developed the vaccines for:  
 (A) Anthrax  (B) Rabies  
 (C) Powl (Chicken) cholera (D) All of the above
66. A peripheral blood smear must be prepared from:  
 (A) Citrated blood (B) Oxalated blood  
 (C) E.D.T.A. blood (D) Heparinised blood
67. Enzymes are chemically  
 (A) Lipids  (B) Proteins  
 (C) Carbohydrates (D) None of these
68. Salt and sugar preserve foods because they:  
 (A) Make them acid (B) Produce a hypotonic environment  
 (C) Deplete nutrients  (D) Produce a hypertonic environment
69. Cholera occurs in \_\_\_\_\_ form?  
 (A) Endemic  (B) Epidemic  
 (C) Sporadic (D) All of the above
70. In the Iron cycle, the transferrin receptor carries:  
 (A) Iron out of duodenal cells from the intestinal lumen  
 (B) Transferrin bound iron into erythrocytes  
 (C) Iron out of duodenal cells into the plasma  
 (D) Transferrin bound iron in the plasma
71. Which of the following is a RNA virus?  
 (A) Human papilloma virus (B) Human T-cell leukaemia virus  
 (C) Hepatitis B virus (D) Cytomegalo virus
72. Diphtheria is caused by  
 (A) Corynebacterium (B) Staphylococcus  
 (C) Streptococcus (D) None of these
73. Spirochete is  
 (A) Gonococci  (B) Staphylococci  
 (C) Treponema pallidum (D) Streptococci
74. The Buffy layer consists of:  
 (A) WBC and platelets (B) RBC and platelets  
 (C) Fat Cells and platelets (D) Epithelial cells
75. What is the life span of RBC?  
 (A) 120 days (B) 100 days  
 (C) 200 days (D) 80 days
76. The shape of a cell is maintained by which of the following?  
 (A) Microtubules (B) Spindle Fibers  
 (C) Ribosomes (D) Centrioles
77. Both vitamin B12 AND Iron have drug interactions with which of the following drugs?  
 (A) PPI, H2 blockers (B) Methylodopa  
 (C) Metformin A (D) Diuretics
78. Disease that affects many people at different countries is termed as  
 (A) Sporadic (B) Pandemic  
 (C) Epidemic (D) Endemic
79. Autolysis is done by:  
 (A) Mitochondria (B) Golgi bodies  
 (C) Lysosomes (D) Peroxisomes
80. Antibodies are  
 (A) Proteins  (B) Glycoproteins  
 (C) Phospholipids (D) None of these
81. The most reliable method for diagnosis of primary syphilis is the:  
 (A) VDRL Test (B) Micro haemagglutinine immobilization test  
 (C) Dark field examination of chancre material (D) Treponema pallidum
82. Cell wall of gram negative bacteria is  
 (A) Thick  (B) Lipids are present  
 (C) Teichoic acids are absent (D) None of these
83. Vitamin B12 and folic have the similar adverse effects, but what separates one from the other?  
 (A) Glossitis (B) No neurological symptoms in folic acid  
 (C) Muscle wasting (D) Dizziness



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84. The stain used to demonstrate fungus  
(A) Albert (B) Nigrosin  
 (C) Lactophenol cotton blue (D) None of these
85. The first antibody to contact invading microorganisms is:  
(A) IgG (B) IgM  
 (C) IgA (D) IgD
86. Which single feature of normal RBC's is most responsible for limiting their life span?  
(A) Loss of mitochondria (B) Increased flexibility of the cell membrane  
(C) Loss of nucleus  (D) Reduction of Hb iron
87. Iron is incorporated into the heme molecule in which of the following forms:  
(A) Ferro  (B) Ferrous  
(C) Ferric (D) Apoferritin
88. At which month of foetal development does the bone marrow become the primary site of haematopoiesis?  
(A) 2nd (B) 5th  
 (C) End of 6th month (D) End of 7th month
89. What is the recommended cleaner for removing all oil from objective lens?  
 (A) 70 % alcohol or lens cleaner (B) Xylene  
(C) Water (D) Benzene
90. Lipid exchange between the RBC membrane and the plasma occurs:  
(A) To replace lost lipids in the membrane (B) To provide a mechanism for excretion of lipid soluble RBC waste products  
(C) To ensure symmetry between the composition of the interior and exterior lipid layers (D) To provide lipid soluble nutrients to the RBC
91. Kavi Kalidasa lived during which reign?  
(A) Ashoka  (B) Chandragupta  
(C) Akbar (D) Tughlaq
92. Find the related word.  
Thunder: Rain; .....: Night  
(A) Day (B) Dark  
 (C) Dusk (D) Evening
93. Which Country has the briefest Constitution in the world?  
 (A) India (B) USSR  
(C) USA (D) UK
94. In Baseball, the two opposing teams consist of how many players?  
(A) 8  (B) 9  
(C) 10  (D) 11
95. Which technique can be used to establish paternity of a child?  
(A) Qualitative analysis of DNA (B) Quantitative analysis of DNA  
(C) Quantitative analysis of RNA (D) Polymerase Chain Reaction
96. In which animal respiration is done by skin?  
(A) Frog  (B) Fish  
(C) Sea horse (D) Prawn
97. 'Gobar Gas' contains mainly which gas?  
(A) Ethane (B) Nitrogen  
(C) Helium  (D) Methane
98. First Railway line was opened in which year in India?  
(A) 1857 (B) 1879  
 (C) 1853 (D) 1911
99. By whom was Gene first isolated?  
(A) Dr. Homi Bhabha (B) John Ehrlich  
 (C) Jargobind Khurana (D) Louis Pasteur
100. Which is the middle layer of earth?  
(A) Sial  (B) Sima  
(C) Core (D) Mantle

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