

- Q.25 Write a short note on basal media.
- Q.26 Write about cultivation of Aerobic bacteria.
- Q.27 Explain selective media.
- Q.28 Give the principle and observation of ZN staining techniques.
- Q.29 Describe the principle of Moist heat Sterilization.
- Q.30 Write the composition of basal media.
- Q.31 Write a short note on Carbohydrate utilization test.
- Q.32 Briefly give the conditions required for the growth of bacteria.
- Q.33 Write the procedure of Hanging drop method.
- Q.34 What type of safety precautions should be taken in microbiology laboratory.
- Q.35 How we can prepare a blood smear.

#### SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Discuss the construction of microscope with diagram.
- Q.37 Explain the different methods of sterilization.
- Q.38 Explain the principle, procedure, and observation of catalase test and VP test.

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#### MLT

#### Subject:- Clinical Microbiology - 1

Time : 3Hrs.

M.M. : 100

#### SECTION-A

**Note:** Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 Microorganism not harmful to human body is known as \_\_\_\_\_
- a) Parasites                      b) Bacteria
- c) Commensals                  d) None of these
- Q.2 External structure of bacteria includes \_\_\_\_\_
- a) cell envelops                  b) Flagella
- c) Pili                                d) All of these
- Q.3 \_\_\_\_\_ originates from cytoplasm and helps in movement.
- a) Pili                                b) Flagella
- c) Cell                                d) Cytoplasm
- Q.4 Which of the following is not a subfield of microbiology?
- a) bacteriology                  b) botany
- c) clinical microbiology        d) virology
- Q.5 Which of the following instrument is used for sterilizing the media after it has been prepared?
- a) Autoclave

- b) Laminar Air Flow Chamber
  - c) Inoculum Needle
  - d) Incubator
- Q.6 The portion of the growth curve where rapid growth of bacteria is observed is known as \_\_\_\_\_
- a) Lag phase                      b) Logarithmic phase
  - c) Stationary phase          d) Decline phase
- Q.7 The term prokaryotes refers to which of the following ?
- a) very small organism
  - b) unicellular organisms that have no nucleus
  - c) multicellular organisms
  - d) cells that resemble animal cells more than plant cells
- Q.8 The cocci which mostly occur in single or pairs are
- a) Streptococci                  b) Diplococci
  - c) Tetrads                        d) None of these
- Q.9 Nutrient broth is a \_\_\_\_\_
- a) Solid media                  b) Liquid media
  - c) Selective media              d) Basal media
- Q.10 Gram stain is used to identify.
- a) Gram + bacteria              b) Gram - Bacteria
  - c) Both A & B                    d) None of these

### SECTION-B

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Microorganism is visible under \_\_\_\_\_
- Q.12 \_\_\_\_\_ gives the definite shape and structure to cells.

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- Q.13 The bacteria which use photosynthesis for their nutrition is known as \_\_\_\_\_
- Q.14 The process in which all living cells, spores, viruses are completely destroyed from an object is called \_\_\_\_\_
- Q.15 Enrichment media allows the growth of a large number of varied bacterial species.
- a) True
  - b) False
- Q.16 Which part of the light microscope controls the intensity of light entering the viewing area?
- Q.17 Pure culture consists of only one type of bacteria.
- a) True
  - b) False
- Q.18 \_\_\_\_\_ of bacteria is the important step in identification of bacteria.
- Q.19 Catalase test is primarily useful in differentiating between \_\_\_\_\_ bacteria.
- Q.20 Application of microscope is called \_\_\_\_\_

### SECTION-C

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Write the principle of autoclave with diagram.
- Q.22 Difference between Electron and dark field microscopy.
- Q.23 What are antiseptics? Give their types.
- Q.24 Draw a well labelled diagram of bacteria.

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