

- 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 envelope 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) Tetracocci 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.

- 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.