

- Q.29 Differentiate 1) flagella and fimbriae,  
2) Prokaryotic cell and Eukaryotic cell.

Q.30 Describe the bacterial growth curve.

Q.31 What is culture media. Explain different types of culture media.

Q.32 Explain disc diffusion antibiotic sensitivity technique.

### SECTION-D

**Note:** Long answer type questions. Attempt any three questions out of four questions. (3x10=30)

Q.33 Define sterilization. Explain the various physical methods of sterilization.

Q.34 Describe the principle, procedure and observations of the following biochemical tests.

- a) Indole test                      b) Hanging drop test

Q.35 Give the principle, procedure and observation of AFB staining.

Q.36 Draw a labelled diagram of bacterial cell. Explain its parts.

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**1st Sem. / DMLT**

**Subject : Clinical Microbiology-I**

Time : 3 Hrs.

M.M. : 100

### SECTION-A

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

Q.1 Culture containing single kind of microorganism is known as \_\_\_\_\_.

Q.2 The microorganisms which require high temperature for growth are known as \_\_\_\_\_.

Q.3 \_\_\_\_\_ preparation is used for demonstration of motility.

Q.4 For sterilization of glassware in hot air oven, usual temperature is \_\_\_\_\_.

Q.5 \_\_\_\_\_ is the common medium, used for cultivation of bacteria in laboratory.

Q.6 \_\_\_\_\_ is the organ of adhesion.

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- Q.7 Cocci arranged in chains are called\_\_\_\_\_.
- Q.8 Death rate equal growth rate in \_\_\_\_\_ phase of growth batch in culture.
- Q.9 The mordant used in Gram staining is \_\_\_\_\_.
- Q.10 Microbes which grow in absence of oxygen are called\_\_\_\_\_.

### SECTION-B

**Note:**Very short answer type questions. Attempt any ten questions out of twelve questions. (10x2=20)

- Q.11 Give the full form of -SS Agar & MR.
- Q.12 Define microbiology.
- Q.13 Write any 2 safety precautions while working in the microbiology laboratory.
- Q.14 What is inoculation.
- Q.15 Define disinfectant with example.
- Q.16 Give the interpretation of result of Albert stain.
- Q.17 Draw a labelled diagram of flagella.
- Q.18 Give any two importance of microbiology.

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- Q.19 What is peritrichate.
- Q.20 Classify the bacteria on the basis of their gaseous requirement.
- Q.21 Give the principle of fluorescent microscope.
- Q.22 Name the staining reagents used in Albert stain.

### SECTION-C

**Note:**Short answer type questions. Attempt any eight questions out of ten questions. (8x5=40)

- Q.23 Give the principle and procedure of Gram staining.
- Q.24 Explain Koch's postulates.
- Q.25 Draw a labelled diagram of bacterial cell. Explain its cellwall in detail.
- Q.26 Explain the principle and procedure and observation of catalase test.
- Q.27 What is microscope. Explain its parts with labelled diagram.
- Q.28 Give the principle of dark field and fluorescent microscope.

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