

- Q.31 Classify the types of bacteria.
- Q.32 What are the factors affecting the growth of bacteria.

### SECTION-D

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

- Q.33 Outline the history & importance of microbiology.
- Q.34 Illustrate the principle & construction of compound microscope.
- Q.35 Explain the principle, procedure & observation of VP & MR test.
- Q.36 Analyse the bacterial cell with the help of Albert stain.

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**DMLT**

**Subject : Cl. Microbiology**

Time : 3 Hrs.

M.M. : 100

### SECTION-A

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

- Q.1 Microscope was invented in \_\_\_\_\_.
- Q.2 MR test stands for \_\_\_\_\_.
- Q.3 Bacteria grow b/w 20°C-50°C is called \_\_\_\_\_.
- Q.4 Bacteria can grow either in presence or absence of air free oxygen is called \_\_\_\_\_.
- Q.5 The process to kill or remove all living micro-organism is called \_\_\_\_\_.
- Q.6 Bacterial capsule is made up of \_\_\_\_\_.
- Q.7 Bacteria having many flagella at one end is called \_\_\_\_\_.

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- Q.8 In which century the “theory of spontaneous generation” developed \_\_\_\_\_.
- Q.9 Tell how many type of autoclave are used in microbiology lab \_\_\_\_\_.
- Q.10 Cells start to divide to produce two daughter cells are called \_\_\_\_\_.

### SECTION-B

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

- Q.11 Describe decline phase.
- Q.12 Differentiate sterilisation & disinfection.
- Q.13 Summarize the importance of microbiology.
- Q.14 Draw a neat & clean diagram of bacterial cell.
- Q.15 Discuss about symbiotic bacteria.
- Q.16 Describe amphitrichate.
- Q.17 Differentiate Gram +ve & Gram -ve bacteria.
- Q.18 Discuss the application of horizontal autoclave.

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- Q.19 Discuss the application of laminar flow.
- Q.20 Describe microscopy.
- Q.21 Discuss the inoculation of culture media.
- Q.22 Discuss Indole test.

### SECTION-C

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

- Q.23 Discuss the Kerby-Bauer’s method.
- Q.24 Examine the bacterial cell with catalase test.
- Q.25 Discuss about streak plate culture technique.
- Q.26 Give the composition of culture media.
- Q.27 Illustrate the procedure of Z-N stain.
- Q.28 Illustrate the methods for cleaning & maintenance of microscope.
- Q.29 Discuss the uses of antiseptic.
- Q.30 Explain the principle & construction of Hot air oven.

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