

- Q.24 Write down the procedure of cleaning of glassware.  
Q.25 Write down the principle of Disc Diffusion Method.  
Q.26 How to prepare thin and thick smear?  
Q.27 Demonstrate the Motility method.  
Q.28 Explain selective culture media.  
Q.29 Explain Inoculations of Culture Media.  
Q.30 What are the characteristics of Agar.  
Q.31 What are nutritional requirement of bacteria.  
Q.32 Write about the importance of Microbiology in our daily life.  
Q.33 What are flagella & Pilli.  
Q.34 Write a short note on Citrate Utilization Test.  
Q.35 Write down the care & maintenance of Microscope.

#### **SECTION-D**

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Write down the principle, procedure & observation of Gram Stain method.  
Q.37 Explain Autoclave with its principle, construction & working procedure.  
Q.38 What is Compound Microscope. Explain its parts, principle & working with diagram.

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**1st Sem / Branch : DMLT**  
**Subject:- Clinical Microbiology-I**

Time : 3Hrs.

M.M. : 100

#### **SECTION-A**

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

- Q.1 Enzyme present in curd is  
a) bacillus                          b) lactovibrio  
c) lactococcus                      d) lactobacillus
- Q.2 Study of microorganisms is \_\_\_\_\_  
a) fungiology                      b) mycology  
c) microbiology                    d) virology
- Q.3 Locomotory organ bacteria is  
a) flagella                         b) villi  
c) cillia                            d) spores
- Q.4 Which nuclear material present in bacteria  
a) DNA                             b) RNA  
c) Both I & II                    d) None of above

Q.5 Full form of ATP is

- a) Adenosine triphosphate
- b) Adenosine triphosphorus
- c) Both I&II
- d) None of the above

Q.6 Binary fission is a part of

- a) mitotic                  b) meiosis
- c) budding                  d) fusion

Q.7 Which phase is initial phase of bacteria population

- a) lag phase                b) log phase
- c) stationary phase      d) decline phase

Q.8 Cholerae is caused by

- a) salmonella              b) E.coli
- c) vibrio cholerae        d) shigella

Q.9 Which bacteria have a round shape

- a) bacillus                b) coccus
- c) spirillum                d) vibrio

Q.10 The sterilization is by

- a) Dry Heat                b) Moist Heat
- c) Both I & II            d) None of these

## SECTION-B

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

Q.11 What are disinfectants?

Q.12 Gram stain is done for (Tuberculosis/Staphylococcus)

Q.13 Sintered glass is used in \_\_\_\_\_ sterilization (filtration/radiation)

Q.14 Compound microscope was invented by (pasteur /koch)

Q.15 Who is resolving power of microscope.

Q.16 Which is the moist heat sterilization instrument. (autoclave/hot air oven)

Q.17 Electron microscope gives magnification upto (200000X/50000X)

Q.18 Name the dry heat sterilization instrument (autoclave/hot air oven)

Q.19 Define sterilization?

Q.20 Name the father of microbiology.

## SECTION-C

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

Q.21 Write a short note on moist heat sterilization.

Q.22 Write short note on Culture Media.

Q.23 What is Antiseptics. Explain its types.