

- Q.26 How to isolate pure & mixed cultures?
- Q.27 Explain Basal cultural media and Transport culture media.
- Q.28 Write a short note on VP test.
- Q.29 What is bacterial growth curve & its phases also.
- Q.30 What is disinfectant. Explain their types.
- Q.31 Write about the safety guidelines of Microbiology lab.
- Q.32 Write down the care & maintenance of Electron Microscope.
- Q.33 Explain Hanging Drop Method of motility.
- Q.34 Write down the classification of bacteria based on shape.
- Q.35 Write the principle of dark field 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 Z-N Staining method.
- Q.37 Briefly describe Microscopic examination of bacteria.
- Q.38 What is Sterilization. Explain about the instruments used for the Moist heat.

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

Time : 3Hrs. M.M. : 100

#### **SECTION-A**

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

- Q.1 Hot air oven is used for?
- a) Infection
  - b) Sterilization
  - c) Washing
  - d) Storage
- Q.2 In sterilization, \_\_\_\_\_ rays are used
- a) gamma
  - b) beta
  - c) UV
  - d) None of these
- Q.3 \_\_\_\_\_ are chemical agents that stop the growth of micro-organism
- a) antiseptics
  - b) Antibacterial
  - c) Disinfectant
  - d) shigella
- Q.4 Name the antiseptic
- a) thymol
  - b) dettol
  - c) Soap
  - d) All of these

- Q.5 Source of peptone is  
a) Carbon                  b) nitrogen  
c) protein                  d) lipid
- Q.6 Agar is used as \_\_\_\_\_  
a) Solidifying agent    b) nutrition  
c) growth media        d) None of these
- Q.7 Acid fast staining is known as \_\_\_\_\_  
a) gram staining          b) H & E stain  
c) Albert                  d) Z-N stain
- Q.8 Crystal violet is used in gram stain as  
a) decolorization        b) primary stain  
c) Counter stain         d) mordant
- Q.9 Which reagent is used as counterstain in Z-N stain  
a) Crystal violet        b) Lugol's iodine  
c) Safranin              d) Methylene blue
- Q.10 Gram positive bacteria appears  
a) yellow                b) purple  
c) red                    d) orange

### SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 What is the full form of STD.

- Q.12 Tuberculosis is caused by (virus /TB bacteria)
- Q.13 Antimicrobial sensitivity test is done by? (Soil diffusion / Disc diffusion)
- Q.14 Study of bacteria is (bacteriology /virology )
- Q.15 Coagulase test is used to differentiate \_\_\_\_\_ species. (staphylococcus / pneumococcus)
- Q.16 HIV affects the (CD2 cells / CD4 cells)
- Q.17 Glacial acetic acid is used in \_\_\_\_\_ stain for identification of spores. (albert/ Z-N stain)
- Q.18 In which media, flagella is visualised under microscope (liquid/solid)
- Q.19 Bromothymol blue is used as \_\_\_\_\_. (indicator/ mordant)
- Q.20 Syphilis is caused by (T.Pallidum /E.coli)

### SECTION-C

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

- Q.21 Draw a well labeled diagram of bacteria cell.
- Q.22 Write a short note on Citrate utilization test.
- Q.23 What is the difference between Gram + ve and Gram -ve cell wall.
- Q.24 Write a short note on Seitz filtration method.
- Q.25 What is the role of micro-organism in food industry.