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**1st Sem. / DMLT**

**Subject : Clinical Microbiology - I**

Time : 3 Hrs.

M.M. : 100

**SECTION-A**

**Note:** Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1
- a) Solid media?
  - b) Hot air oven?
  - c) Define microbiology?
  - d) What is Resolution?
  - e) Eye piece?
  - f) Name of any two AFB micro-organisms?
  - g) Write about detol?
  - h) Define Antiseptics?

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- i) Define selective media?
- j) Lag phase of Bacterial growth curve?
- k) Expand P.B.F?
- l) Define magnification of microscope?
- m) Transport media?
- n) What is the importance of microbiology?
- o) Expand TEM & SEM?
- p) What is Enriched media?
- q) Write the name of any two gram +ve(Positive) microorganisms?
- r) What are aerobic cultures?

**SECTION-B**

**Note:** Short answer type questions. Attempt any ten parts 10x4=40

- Q.2
- i) Write the principle of Autoclave?
  - ii) Discuss in detail about sterilization techniques?

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- iii) Write a note on microbiology laboratory safety rules?
- iv) What are Koch postulates?
- v) Write the principle of dark field microscopy?
- vi) Give the different types of disinfectants?
- vii) Draw a well labelled diagram of a cell?
- viii) Write a note on bacterial nutrition?
- ix) Write a note on moist heat sterilization?
- x) How we can isolate pure and mixed cultures?
- xi) What are culture techniques?
- xii) Explain about sterilization by filtration method?
- xiii) Differentiate between Antiseptic & Disinfectants?
- xiv) Give the principle & procedure of Indole test?
- xv) How we can prepare a good smear?

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## SECTION-C

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

- Q.3 Write about the electron microscope with its different types?
- Q.4 Explain about role of culture media in microbiology
- Q.5 Give a detailed note on Antibiotic sensitivity test?
- Q.6 Write a detailed note on Biochemical tests for the identification of Bacterias?
- Q.7 Explain sterilization in detail with its types?

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