

Q.20 List the safety guidelines to be practiced in microbiology laboratory

Q.21 Draw the growth curve for bacteria stating each stage

Q.22 Why phenol co-efficient tests are carried out. Analyze their outcomes

#### SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.23 Discuss the working procedure of an Hot air oven with the help of labeled sketch

Q.24 Summarize the mode of action of phenolic aldehydes compounds used as sterilizing agents

Q.25 Tabulate the method of preparation of different staining solutions, their uses and storage conditions.

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1st Sem. / DMLT

Subject : Basic Microbiology

Time : 3 Hrs.

M.M. : 60

#### SECTION-A

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 Obligatory anaerobes are

- a) Can grow profusely in presence of oxygen
- b) Cannot grow in presence of oxygen
- c) Can survive in presence of oxygen
- d) None of above

Q.2 The construction of the simple microscope is attributed to

- a) Louis Pasteur
- b) Antony van Leeuwenhoek
- c) Haeckel
- d) Robert Koch

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Q.3 Equipment used to achieve sterilization does not include

- a) Laminar Air Flow
- b) BOD incubator
- c) UV rays
- d) Centrifuge

Q.4 In Albert stain micro-organism stains

- a) Red color
- b) Blue color
- c) Orange color
- d) Green color

Q.5 Spherical shaped bacteria are termed as

- a) Cocci
- b) Bacilli
- c) Spirochete
- d) Spirillum

Q.6 The main solvent used for preparation of culture media is

- a) Water
- b) Alcohol
- c) Acetone
- d) Cyclohexane

### SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

Q.7 Cell wall in bacteria is made up of?

Q.8 Define antiseptics.

Q.9 Discuss the principle of working of fluorescent microscope.

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Q.10 Tell the uses of formaldehyde as disinfectant.

Q.11 Name two scientists for their contribution in development of microbiology.

Q.12 Define the term Thermal Death Time

### SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 Discuss the steps involved in gram staining technique.

Q.14 Analyze the basic composition of bacteriological culture media.

Q.15 Filtration by Sterilization by filtration is mainly preferred for thermolabile medicaments. Infer the statement

Q.16 Discuss the brief procedure and significance for AFB staining

Q.17 List at least four applications of moist heat sterilization

Q.18 Classify the bacteria on the basis of shapes

Q.19 Define and give example of each

- a) Transport media
- b) Enriched media

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