

No. of Printed Pages : 4
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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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- 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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