

No. of Printed Pages : 4
Roll No.

221914

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

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) Coccii
- b) Bacilli
- c) Spirochete
- d) Spirillium

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.

(1)

221914

(2)

221914

- 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. $(8 \times 4 = 32)$

- 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
- Transport media
 - Enriched media

(3)

221914

- 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. $(2 \times 8 = 16)$

- 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.

(3240)

(4)

221914