

Roll no. _____

ID: 221914

Semester: 1st

Branch: DMLT

Subject Name: Basic Micro-Biology

Time Allowed: 3 Hrs.

MM: 60

Note: Multiple Choice questions. All questions are compulsory.

$$6 \times 1 = 6$$

- Q.1 Chocolate agar is the examples of -----
(a) Enriched Medium (b) Selective Medium
(c) Differential Medium (d) Nutrient Medium

Q.2 Rod shaped bacteria are termed as
(a) Coccii (b) Bacilli
(c) Spirochete (d) Spirillum

Q.3 Autoclaving inactivates/kills bacteria by
(a) Oxidation (b) Reduction
(c) Denaturation (d) Hydrolysis

Q.4 Maximum growth of bacteria can be observed in -----phase
(a) Log (b) Lag
(c) Stationary (d) Decline

Q.5 Mycobacterium are best identified in
(a) Giemsa stain (b) Gram stain
(c) Fontana Stain (d) Acid fast stain

Q.6 Klintex papers are used as
(a) Bacteria proof filter papers (b) To check the efficiency of sterilizers
(c) For aseptic monitoring (d) To check sterility testing

Section-B

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

- Q.7 Tell the functions of flagella in bacterial cell
Q.8 Define the term Thermal Death Time
Q.9 Tell why shorter exposures time are preferred in autoclave to achieve sterilization?
Q.10 Distinguish between phototrophs and chemoheterotrophs
Q.11 Give examples of chemical indicators used to evaluate efficiency of sterilizers
Q.12 Distinguish enriched media from nutrient broth

Section -C

Note: Short answer type Questions. Attempt any eight questions out of ten questions. $8 \times 4 = 32$

- Q.13 Review the nutritional requirements of bacteria for its growth and development.

Q.14 Write the informative notes on streak plate method for isolation of pure cultures.

Q.15 "*Radiation sterilization is also referred as cold sterilization*". Interpret the statement.

Q.16 Draw and show the different phases of the typical bacterial growth curve.

Q.17 Discuss the principle, working and limitations of Rideal Walker Co-efficient Test.

Q.18 List the four desirable properties to be possessed by an ideal disinfectants.

Q.19 Gram staining is also referred as differential staining. Interpret the statement.

Q.20 Define and give example of each (a) Selective media (b) Enriched media.

Q.21 Handling of Microscope is to be done with utmost care. Interpret he statement.

Q.22 Discuss about the role of sterilization indicators

Section-D

Note: Long answer questions. Attempt any two questions out of three questions.

$$2 \times 8 = 16$$

- Q.23** Discuss the working procedure of an autoclave with the help of labeled sketch.

Q.24 Explain the different types of culture techniques to be utilized in microbiology along with their applications.

Q.25 How do different chemicals are useful in disinfection procedures. Explain with suitable examples.