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Roll No.

**1st Sem./ DMLT, DMLT (For Speech and
Hearing Impaired)**

Subject : Basic Microbiology

Time : 3 Hrs.

M.M. : 60

SECTION-A

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

Q.1 The main solvent used for preparation of culture media is

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

Q.2 Spherical shaped bacteria are termed as

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

Q.3 The construction of the simple microscope is attributed to

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

Q.4 Which bacteria lives in the human intestine?

- a) Saprotrophic b) Rhizobium
- c) E-coli d) None of these

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Q.5 Which bacteria decompose organic compounds into inorganic and derive energy

- a) Heterotrophic b) Saprophytic
- c) Autotrophic d) None of these

Q.6 Degree of enlargement of object images is called _____

- a) Magnification b) Rotation
- c) Sterilization d) None of these

SECTION-B

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

Q.7 Write the use of Mordant in staining.

Q.8 Define antiseptics

Q.9 Discuss the principle of working of fluorescent microscope

Q.10 Culture media containing only one type of microorganism is called _____ media.

Q.11 _____ is the process used to kill or remove all living micro-organism.

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Q.12 Tell the uses of formaldehyde as disinfectant.

SECTION-C

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

Q.13 List the safety guidelines to be practiced in microbiology laboratory.

Q.14 Write the various applications of bio-safety Cabinets.

Q.15 Write the difference between synthetic and non synthetic culture media.

Q.16 Draw the growth curve for bacteria stating each stage.

Q.17 Discuss the steps involved in gram staining technique.

Q.18 Explain Basal culture media and transport culture media.

Q.19 How to prepare thick smear?

Q.20 Write the principle and usage of compound microscopes.

Q.21 Define seitz filter sterilization.

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Q.22 Write down the applications of antiseptic.

SECTION-D

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

Q.23 Explain Bacterial Growth curve and nutrition in detail.

Q.24 Write down the principle, procedure and observation of Gram staining.

Q.25 Describe bacterial morphology along with its internal and external structure. Draw a labeled diagram

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