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Roll No.

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

Subject:- Basic Microbiology

Time : 3Hrs.

M.M. : 60

SECTION-A

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

Q.1 Autoclave temperature should be maintain for media sterilization-

- a) 151 C, 15 Lbs, 15 min
- b) 131 C, 15 Lbs, 5min
- c) 121 C, 15 Lbs, 15min
- d) 131 C, 15 Lbs, 5min

Q.2 In AFB stain Tb, bacilli stains

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

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Q.3 Obligatory aerobes are

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

Q.4 In radiation sterilization _____ rays are used

- a) Gamma b) Beta
- c) Ultra d) None of these

Q.5 Agar is used as _____

- a) Solidifying agent b) Nutrition
- c) Growth media d) None of these

Q.6 Equipment used to achieve sterilization does not include?

- a) Laminar Air flow b) BOD incubator
- c) UV Rays d) Centrifuge

SECTION-B

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

Q.7 Define the term photoautotrophic bacteria.

Q.8 What is generation time for bacteria?

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- Q.9 What is flagella? Write the classification of flagella.
- Q.10 Name two scientists for their contribution in the development of microbiology.
- Q.11 Define selective media.
- Q.12 Which type of organism is known as a thermophilic organism?

SECTION-C

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

- Q.13 Write the safety guidelines of the microbiology lab.
- Q.14 Classify the bacteria on the basis of shapes.
- Q.15 Discuss the brief procedure and significance for AFB staining.
- Q.16 Explain Gram stain technique in brief.
- Q.17 Define Hot air oven and write their uses / application.
- Q.18 Draw flagella of bacteria and explain in brief.
- Q.19 Define and give examples of each
- i) Transport media ii) Enriched media

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- Q.20 Analyze the basic composition of bacteriology culture in media.
- Q.21 Define disinfectants and explain its type in brief.
- Q.22 Write down the classification of bacteria based on flagella.

SECTION-D

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

- Q.23 Define sterilization and explain its various types in short.
- Q.24 Write down the principle, procedure and observation of AFB staining.
- Q.25 Discuss the working procedure of a hot air oven with the help of a labeled sketch.

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