

[4319] - 7
F.Y.B.Sc.
BIOTECHNOLOGY
Bb-107 : Microbiology
(2008 Pattern)

Time : 3 Hours]

[Max. Marks :80

Instructions to the candidates:

- 1) All questions are compulsory.*
- 2) Draw neat and labelled diagrams wherever necessary.*
- 3) Figures to the right indicate full marks.*

Q1) Answer the following :

[16]

- a) Define and draw an umbonate colony.
- b) State two plant pathogens and the disease they cause.
- c) Define : Chemoheterotrophs. Give a suitable example.
- d) State two distinguishing characters of Fungi.
- e) Define an acidic stain with suitable example.
- f) Enlist the phases of bacterial growth curve.
- g) State the principle of Autoclave.
- h) Define : Rhizosphere.

Q2) Attempt any four :

[16]

- a) State the uses of refrigerator in a microbiology laboratory.
- b) A water sample was analyzed and the following data was obtained.
 - i) Volume of sample plated : 0.1ml
 - ii) Dilution of sample : 10^6
 - iii) Number of colonies obtained : 100.Calculate the TVC of the sample.
- c) Describe the use of enriched medium with a suitable example.
- d) Justify : Pure culture is necessary for studying bacterial characteristics.
- e) Explain : Viruses are a link between living & non-living.
- f) Why is it necessary to enumerate bacteria?

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VM Jensen



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