

**[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?

# Model Exam Paper Bsc Biotechnology Second Semester

**Jin-Ying Zhang**



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