

Code No.: 7223

Sub. Code: C 12 B

M.Sc. DEGREE EXAMINATION, NOVEMBER 2008.

First Semester

Botany – (CBCS)

Paper II – MICROBIOLOGY AND PLANT PATHOLOGY

(For those who joined in July 2008 and afterwards)

Time: Three hours

Maximum : 75 marks

PART A - (10 x 1 = 10 marks)

Answer ALL questions.

Comment/Describe/Write short notes/Define the following:

1. Work of Louis Pasteur.
2. Synchronous growth.
3. Chemical composition of Virus.
4. Mycoplasma.
5. Molds in soil.
6. Microbial flora of milk.
7. Natural antibodies.
8. Opsonic theory.
9. Disease forecasting.
10. Gummosis.

PART B – (5 x 5 = 25 marks)

Answer ALL questions choosing either (a) or (b).

11. (a) List the contributions of Koch.

Or

- (b) Write notes on bacterial growth curve.

12. (a) Explain lysogenic cycle.

- (b) Enumerate the general features of Actinomycetes.
13. (a) How lactic acid is produced using micribes?
Or
(b) Explain dye reduction rest.
14. (a) What is cell mediated immunity?
Or
(b) Mention the types of antibodies.
15. (a) Explain Host-Parasite interaction.
Or
(b) Describe White rust of Crucifer.

PART C – (5 x 8 = 40 Marks)

Answer ALL questions choosing either (a) or (b)

- 16.(a) Give an account of cell wall structure and chemistry of bacteria.
Or
(b) Illustrate the methods of isolation of pure culture.
17. (a) Discuss the important features of Rickettsiales.
Or
(b) Explain the mode of action of antibiotics
18. (a) Write an account on waste water treatment.
Or
(b) Describe industrial production of acetic acid.
- 19.(a) Illustrate T-cell dependent antibody response
Or
(b) Elucidate Classical complement pathway
- 20.(a) Write an essay on Tikka disease of Groundnut
Or
(b) Write the classification of plant diseases.