

2009**3rd Semester Examination****MICROBIOLOGY****PAPER—XIV****Full Marks : 40****Time : 2 Hours**

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Answer any two questions from each group.

Group—A**[Marks : 20]**

1. (a) Man without microbes—Anon reality, —Discuss in short.
- (b) Write a short note on Host Parasite relationship.
- (c) Enumerate some beneficial effects of normal intestinal micro flora of our body. 4+4+2
2. (a) Enumerate the common microbes causing food poisoning with some hints about their incubation period.
- (b) Write in short the different modes of nosocomial infections.
- (c) Difference between *M. tuberculosis* and *M. leprae*. 4+4+2

(Turn Over)

3. Write short notes (any two) :

5×2

- (a) Ring worm;
- (b) Mantou Test;
- (c) Giardiasis;
- (d) Lab Diagnosis of Diphtheria;

Group—B

[Marks : 20]

4. (a) Distinguish attenuated and killed vaccines by mentioning at least two examples in each group.
- (b) Why carriers are need for synthetic vaccine preparation ?
- (c) Describe briefly national vaccination schedules.

4+2+4

5. What is monoclonal antibody? Describe the process of production of monoclonal antibody. What are the applications of monoclonal antibody?

2+5+3

6. Write short notes from the following (any two) : 5×2

- (a) Erythroblastosis foetalis;
- (b) FACS;
- (c) Immunofluorescence;
- (d) Characteristics of antibodies and enzymes in ELISA technique.