

2008

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) Define Nosocomial infection.
(b) What are the factors influencing infection?
(c) Name the common organisms responsible for hospital acquired infection. 2+4+4

2. (a) Write about the causative organisms and laboratory diagnosis of urinary Tract Infection.
(b) Describe the life cycle and pathogenesis of *Giardia Lambli*a. 5+5

3. Answer short notes (any two) :

5×2

- (a) B.C.G.
- (b) Mycotoxin.
- (c) Dermatophytes
- (d) L. D. body.

Group — B

[Marks : 20]

4. (a) Describe the significance of vaccination.
- (b) Why prokaryotic expression system are generally preferred for recombinant protein vaccine production ?
- (c) How toxoid can be prepared ? 3+3+4
5. (a) What is anti-idiotypic vaccine ?
- (b) Briefly describe tissue slide preparation procedure for immuno-histochemical study.
- (c) Describe the avidin-biotin-complex (ABC) method for detection of antigen in tissue. 2+4+4
6. Write any two questions from the following : 5×2
- (a) Advantages and disadvantages of DNA vaccine.
 - (b) Epitope designing.
 - (c) Complement fixation reaction.
 - (d) Immuno electrophoresis.
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