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6. (a) Elaborate the phases in the course of an infectious disease. (4)
- (b) What are opportunistic pathogens? Explain with the help of an example. (4)
- (c) Give one word answers for the following : (1×4=4)
- (i) A toxoid vaccine
 - (ii) Intracellular pathogen
 - (iii) Effector cells secreting antibody
 - (iv) Macrophages found in kidney

(2000)

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 6083

H

Unique Paper Code : 2534001202

Name of the Paper : Microbes in Infectious Diseases

Name of the Course : **B.Sc. (Hons.) Microbiology**

Semester : II (UGCF)

Duration : 2 Hours

Maximum Marks : 60

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
 2. Attempt any **five** questions.
 3. **All** questions carry equal marks.
-
1. (a) Discuss the types and functions of antibody. (7)

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(b) List the mode of transmission of the following diseases : (1×5=5)

- (i) Dengue
- (ii) Polio
- (iii) Tuberculosis
- (iv) AIDS
- (v) Measles

2. Write short notes on the following (any 3) : (4×3=12)

- (i) Inflammation
- (ii) Adjuvants
- (iii) Virulence factors
- (iv) Primary and secondary immune response

3. (a) Give one important function of the following : (1×6=6)

- (i) M cells
- (ii) Reservoir
- (iii) CTLs

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(iv) Thymus

(v) Adhesion factors

(vi) Basophils

(b) Discuss the different types of vaccines. (6)

4. Differentiate between the following (any 3) : (4×3=12)

- (i) Active and Passive immunity
- (ii) Exotoxins and Endotoxins
- (iii) Primary and Secondary lymphoid organs
- (iv) Acute and Latent infection

5. Define the following terms : (2×6=12)

- (i) Hapten
- (ii) Nosocomial infection
- (iii) Incubation period
- (iv) Opsonin
- (v) Pathogenicity
- (vi) Cytokines

P.T.O.