

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT  
MID SEMESTER EXAMINATION – 2015  
B.Tech Semester – VIII

COURSE CODE: 15B1WBT839  
COURSE NAME: INFECTIOUS DISEASES

MAX. MARKS: 30  
MAX. TIME: 2 HRS

*Note: All questions are compulsory.*

Marks

**Section A**

(6 X 1 = 6)

1. Differentiate chronic and acute diseases. Give at least 2 examples of each.
2. Define systemic infection and prion.
3. What do you understand by antigenic shift and antigenic drift?
4. What are endotoxins and exotoxins? Give examples.
5. What are M cells?
6. Name various mechanisms adjuvants use to enhance immunogenicity of antigen.

**Section B**

1. Why do we need to study disease epidemiology? (2)
2. What and how various zoonotic factors contribute to emergence of pathogens? (3)
3. What do you understand by active and passive immunization? Name various conditions that require passive immunization. (2)
4. Describe various requirements for a productive infection? (2)

**Section C**

1. Name various factors responsible transmission of a disease. (3)
2. Give classification of infectious diseases according to epidemiologic, clinical and microbiologic features. (4)
3. What are various immune evasion strategies used by parasites? (3)
4. What are attenuated viral/bacterial vaccines? Give their advantages and disadvantages. (3)
5. Write short note on herd immunity. What are factors affecting herd immunity? (2)