

B.Tech (Biotechnology) 4th year

Course Code: 15B1WBT839

MAX. MARKS: 25

Course Name: Infectious Diseases

Course Credits: 03

MAX. 1.5 hrs

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means. Marks are indicated in brackets against each question.

1. What are viroids and prions? (2)
2. Briefly discuss exotoxins and endotoxins. Give examples. (2)
3. Parvoviruses contain ssDNA as their genetic material. Discuss their replication strategy. (2)
4. Give various advantages of a disease epidemiology study. (2)
5. Discuss briefly various stages of infection of HIV. (2)
6. Identify a virus that results in severe infection if encountered second time. Describe life cycle of this virus. (5)
7. Identify a virus that causes jaundice, transmitted via fecal-oral route, carry positive stranded RNA genome and its average incubation period is 30 days. Give detailed replication strategy used by this virus. (5)
8. Discuss various portals of entry utilized by various microbial pathogens giving examples of pathogenesis caused by them. (5)