

Dr Gyan

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT
TEST-1 EXAMINATION, FEBRUARY 2016.
B.Tech VIII Semester (BT)

Subject Code: 15B1WBT839

Maximum Marks: 15

Subject Name: Infectious diseases

Course Credits: 03

Time: 1Hr.

Attempt all questions. All parts of each question have to be answered in one place. Carrying of mobile phone in examination centre will be treated as unfair means case.

1. How the structural components of a bacterium contributes to the virulence potential? 2
2. How the infectious disease pose economic impact globally? Explain with an example of recent outbreak of Ebola infection. 2
3. Two patients were admitted to hospital due to food poisoning. One was detected with neural damage and other with typhoid fever. Based on these observations, discuss
 - a) The etiology and organism involved
 - b) Virulence factors which might contribute to onset of diseases
 - c) Differences in the virulence factors 1+1+2
4. Adhesion to a host cell is a pre-requisite for a pathogen to cause infection and disease. How these adhesion mechanisms differ among different group of pathogens? 2
5. What do you understand by re-emerging pathogens? How the epidemiological studies are helpful in detection of these pathogens. Explain with an example 2
6. Explain briefly: 3
 - a) DALYs
 - b) LD₅₀ and ID₅₀
 - c) Enzymes as virulence markers