

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2023

B.Tech-Vth Semester (IT)

COURSE CODE (CREDITS): 18B11CI512 (3)

MAX. MARKS: 15

COURSE NAME: INFORMATION SYSTEMS

COURSE INSTRUCTORS: Dr. Ruchi Verma

MAX. TIME: 1 Hour

Note: (a) All questions are compulsory.

(b) Marks are indicated against each question in square brackets.

(c) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems

1. Discuss the MVC architecture and its components. Design the MVC architecture of railway reservation system. (4.5 marks CO-2)
2. You have been hired as a systems innovator to design a new cell phone network for 500,000 subscribers. You are wise enough to include the requirement of future growth of the cell phone network to individual additional subscribers. (4.5 marks CO-2)
 - i. What other requirements might be worth considering when you design the system?
 - ii. What requirements might influence the success (or failure) of the designed system?
 - iii. Represent the various types of information systems involved in the design.
3.
 - i. What are the criteria for a system to qualify as a transaction processing system? (2 marks CO-1)
 - ii. What are the characteristics and features of a transaction processing system? Explain with an example. (2 marks CO-1)
4. Make a comparative analysis of a decision support system with the management information system. Draw a flowchart explaining to elaborate on it. (2 marks CO-1)