

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -I EXAMINATIONS-2023

M.Tech-II Semester (ECE)

COURSE CODE (CREDITS): 21M11EC213 (3)

MAX. MARKS: 15

COURSE NAME: Network Security Protocols

COURSE INSTRUCTOR: Dr. Pardeep Garg

MAX. TIME: 1 Hour

Note: All questions are compulsory. Marks are indicated against each question in square brackets.

Q1. Discuss the most commonly used configuration models which form a computer network.

[CO-1, 1.5 marks]

Q2. n message signals have to be transmitted over a common transmission medium. Which technique will be employed in this situation? Discuss the types of that technique also.

[CO-1, 2 marks]

Q3. What does network topology signify? Considering the advantages, disadvantages, and number of cable links required; discuss in detail the network topologies. [CO-1, 2.5 marks]

Q4. Differentiate between circuit switching and packet switching techniques. [CO-1, 1.5 marks]

Q5. Discuss in brief the internetworking devices.

[CO-1, 2 marks]

Q6. Write short note on network security. When is a network said to be physically secured? Discuss the four main mechanisms which should be in place to ensure that the physical security is guaranteed?

[CO-1, 2.5 marks]

Q7. Define *sniffers* in the context of encryption.

[CO-1, 1 mark]

Q8. There exists various security standards which system, security managers and users can choose based on the type of industry they are in and what type of services that industry provides. Discuss in brief a few of such security standards.

[CO-1, 2 mark]