

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATIONS-FEBRUARY 2025

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: (a) All questions are compulsory. (b) The candidate is allowed to make suitable numeric assumptions wherever required for solving problems.*

Q. No	Question	CO	Marks
Q1	In how many ways can data switching from host to host across the length and width of network occur? Differentiate between those switching techniques.	CO-1	2
Q2	A network has to be laid down to connect various systems in a newly opened organization. The organization hired a service provider for this task. The service provider apprised the organization's incharge about the technology, its types along with the merits and demerits of each type which will be utilized in this situation. Discuss in detail that technology, its types along with their merits and demerits.	CO-1	3
Q3	Write a short note on network security. When is a network said to be physically secured? Discuss the main mechanisms which should be in place to ensure that the physical security is guaranteed?	CO-1	3
Q4	The protection of system data and information from unauthorized disclosure is governed by the confidentiality service. Define the term 'sniffers' in this context and mechanism of protection against it.	CO-1	2
Q5	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	2.5
Q6	'The security threats to networks can be because of weaknesses in network infrastructure and communication protocols' justify this statement considering suitable example.	CO-2	2.5