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School of Computing Science and Engineering

Master of Technology in Computer Science and Engineering

Mid Term Examination - Nov 2023

Duration : 90 Minutes

Max Marks : 50

Sem I - E2PV102T - Advanced Computer Networks

General Instructions

Answer to the specific question asked

Draw neat, labelled diagrams wherever necessary

Approved data hand books are allowed subject to verification by the Invigilator

- 1) Compare and contrast TCP/IP and OSI models, highlighting their similarities and differences. K3 (6)
- 2) You are the network engineer of a company your company wants to set up network. Explain the different types of cables available and also discuss their advantages and disadvantages. K3 (9)
- 3) You are the network engineer of a company your company wants to set up network. Explain the different types of topology and also discuss their advantages and disadvantages. K4 (8)
- 4) Investigate the working of CSMA/CA protocol with proper block diagram. Discuss the frame structure of Ethernet in details. Explain the physical address concept. K5 (15)
- 5) Examine the role of connecting devices, such as switches and bridges, in enhancing network performance and reducing collision domains. K6 (12)