

School of Computing Science and Engineering

Department of Computer Application

Mid Term Examination

Exam Date: 30 Sep 2023

Time : 90 Minutes

Marks : 50

Sem III - MSCS2340 - Computer Networks

Your answer should be specific to the question asked

Draw neat labeled diagrams wherever necessary

- 1) Explain Switch and its working and differentiate with hub K2 (2)
- 2) Explain the different types duplex communication with example. K1 (3)
- 3) Explain the concept of LAN (Local Area Network), PAN (Personal Area Network) and a WAN (Wide Area Network) in terms of their coverage area. K2 (4)
- 4) Discuss the Physical Layer of the OSI model and explain its primary function in network communication. K2 (6)
- 5) Compare and contrast TCP/IP and OSI models, highlighting their similarities and differences. K3 (6)
- 6) 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)
- 7) Evaluate the compatibility of different email clients with IMAP, POP, and SMTP protocols. K4 (8)
- 8) Analyze the differences between store-and-forward and cut-through switching techniques, considering their impact on delay and efficiency. K4 (12)

OR

Evaluate the compatibility of different email clients with IMAP, POP, and SMTP protocols. K4 (12)