

Programme: MCA

Course: Computer Communication Networks

Course Code:3CIT106

Enrolment no. \_\_\_\_\_

Full Marks: 70

Time: 3 Hrs.

Q.No.	Questions	CO	Bloom Taxonomy Category	Marks
<b>Section I</b>				
1	<b>Short Answer type questions.</b>			
a	What are the number of cable links required for n devices connected in mesh, ring, bus and star topology?	CO1	Apply	<b>4 x 5 = 20</b>
	or			
b	Define communication protocol. State the reason(s) for the need of protocol architecture.	CO1	Understand	
	or			
c	Enumerate the goals of layered protocols.	CO2	Understand	
	or			
d	Explain propagation time & transmission time with example.	CO2	Understand	
	or			
	What do you mean by multiple access communications?	CO2	Understand	
	or			
	Explain random access.	CO2	Understand	
	or			
	Explain switch, router & gateway.	CO5	Understand	
	or			
	What is meant by route discovery protocols? Give examples of route discovery protocols.	CO5	Remember	
<b>Section II</b>				
	<b>Long Answer type questions.</b>			
2	Give an analytical view of connection oriented network and connection less networks.	CO2	Analyze	<b>3 x 10 = 30</b>
	or			
3	Compare synchronous transmission and asynchronous transmission. Use suitable diagram for both.	CO2	Analyze	
	or			
4	Enumerate the advantages and drawbacks of Frame relay.	CO4	Remember	
	or			
5	Present a performance comparison of X.25 and Frame relay.	CO4	Analyze	
	or			
	Evaluate the role and function of i. MAC frame format ii. SDLC	CO5	Evaluate	
	or			
	Analyze Broadcast routing vs. multicast routing.	CO5	Analyze	
<b>Section III</b>				
	<b>Application based questions</b>			
5	Evaluate the role of the following protocols of application layer. a. HTTP b. FTP c. SMTP d. DNS	CO3	Examine	<b>1 x 20 = 20</b>
	or			
	a.Evaluate Broadband and Baseband LANs on the basis of various parameters. b. Discuss about wireless LAN and evaluate it on performance and security parameters.	CO3	Evaluate	

**COURSE OUTCOME**

CO1 Understand the basics of data communication, networking, internet and their importance.

CO2 Analyze the services and features of various protocol layers in data networks.

CO3 Differentiate wired and wireless computer networks

CO4 Analyse TCP/IP and their protocols.

CO5 Recognize the different internet devices and their functions.