REV-01 BCA/58/63

c. Router

a. Network

c. Presentation

## BACHELOR OF COMPUTER APPLICATION FOURTH SEMESTER COMPUTER NETWORKS

BCA - 402.1

(Use Separate Answer Scripts for Objective & Descriptive) Full Marks: 70 Duration: 3 hrs. [ PART-A: Objective ] Marks: 20 Time: 20 min. 1X20 = 20Choose the correct answer from the following: 1. What does LAN stand for? a. Local array net b. Local area network c. Local allocation Network d. None 2. Identify among the following servers which allow LAN users to share data a. Communication server b. Point server d. File server c. Data server 3. TCP/IP Model does not have b. Application layer a. Transport layer d. Session layer c. Network layer 4. Physical or Logical arrangement is b. Routing a. Networking d. None of the above c. Topology 5. Multi point connection requires a. Bus Topology b. Ring Topology d. Mesh topology c. Star Topology 6. Identify the switching method in which the message is divided into small packets b. Packet switching a. Virtual switching d. None of the above c. Network switching 7. A single channel is shared by multiple signals by b. Digital modulation a. Multiplexing d. None of the above c. Analog modulation 8. What does MAC stand for b. Minimum access Control a. Mass Access Control d. None of the above c. Media access carriage 9. What of the following device is used in the network layer b. switch a. Application gateway

10. Identify the layer which is responsible for data translating

d. repeaters

b. Data link d. Application

e of b. Twisted-pair wire d. Microwaves			
vireless LAN called, which cove b. ieee 802.5 d. ieee 802.11			
b. Cdma/cd d. None of the above			
ent to the Transport layer of the OSI model? b. Host-to-Host d. Network			
t automates the IP configuration, including land DNS information. Which protocol will you			
d. ARP			
b. 168.172.19.39 d. 12.0.0.1			
ximum of only 254 host addresses per			
b. Class B d. Class D			
ne message is divided into small packets b. Digital scan d. Firewall			
b. Frame filter d. Virus filter			
20. A firewall is installed at the point where the secure internal network and untrusted external network meet which is also known as			
b. Meeting point d. Chock point			

USTM/COE/R-01

## PART-B: Descriptive

Time: 2 hrs. 40 min. Marks: 50

## [Answer question no.1 & any four (4) from the rest]

1.	a.	What is a computer network?	2+8=10
	b.	Explain different types of computer networking in detail	
2.	a.	Explain the concept of data terminal equipment & data communication equipments?	8+2=10
	b.	State few lines on Bandwidth & Baseband	
3.		Illustrate the concept of Network Topology and its type in detail  Define the following terms:  i. Hub  ii. Switches.	6+4=10
4.	a.	What is the concept of client server architecture? Explain different types of server.	5+5=10
	b.	Explain switching techniques and its types.	
5.	a.	what is OSI model?	2+8=10
	b.	Explain 7 layer model of OSI with suitable diagram	
6.		What do you mean by IEEE standard?  Demonstrate IEEE 802 project standards in detail	2+8=10
7.	a.	What is the difference between IPv4 & IPv6?	4+6=10
	b.	Explain TCP/IP reference Model with suitable Architecture diagram.	
8.	a.	State few lines on URL.	3+7=10
	b.	What is network security? Explain the concept of Firewall Technology.	

== \*\*\* = =