5th Sem / Comp, IT, GE
Subject:- Computer Networks

Time : 3Hrs.   M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory   (10x1=10)

Q.1 LAN stands for_____

a) Local area network b) Less access network

c) Less area network   d) Local access network

Q.2 TCP/IP model does not have _____ layer but OSI model have this layer.

a) Session layer   b) transport layer

c) application layer   d) network layer

Q.3 Physical or logical arrangement of network is_____

a) Topology   b) Routing

c) Networking   d) Control

Q.4 Which network topology requires a central controller or hub?

a) Star   b) Mesh

c) Ring   d) Bus

Q.5 Select which one of these is not a class of IP addresses.

a) Class A   b) Class F

c) Class E   d) Class B

Q.6 What layer in the TCP/IP stack is equivalent to the transport layer of the OSI model?

a) Application   b) Host-to-Host

c) Internet   d) Network Access

Q.7 Which of the following is private IP address?

a) 12.0.0.1   b) 168.172.19.39

c) 172.15.14.36   d) 192.168.24.43

Q.8 Which one of the following network device work in the network layer?

a) Router   b) Switch

c) Both a & b   d) None of above

Q.9 If you want to find the number of routers between a source and destination, the utility to be used is_____

a) route   b) Ipconfig

c) Ifconfig   d) Traceroute

Q.10 IEEE 802.11 standard is for?

a) Wireless LAN   b) Bluetooth

c) Wi-Fi   d) Wi-MAX

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

Q.11 What is the main advantage of Network

Q.12 What is Routers?

Q.13 What is the function of transport layer?

Q.14 Define Data Link protocol?

Q.15 What is IPV4?

Q.16 Define IP addressing?

Q.17 What is ARC Net?

Q.18 What do you mean by Bridge?

Q.19 BSS stands for_____

Q.20 What is IEEE 802.11?

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

Q.21 What is computer Network? Discuss the needs of a computer network in brief

Q.22 Explain circuit switching. Why it is suitable for voice communication?

Q.23 Explain the various elements of Computer Networks?

Q.24 What are various network services? Discuss in brief?

Q.25 Write a short note on Gateway?

Q.26 Write five differences between OSI and TCP/IP reference models.

Q.27 Differentiate between Peer to Peer and Server Client network model?

Q.28 What is IP addressing? Explain the IP Address format?

Q.29 Explain various classes used in IP addressing?

Q.30 What are subnetting and super netting?

Q.31 Explain the frame format for 10 Base 5 Ethernet?

Q.32 What is Hub? Explain various types of hub briefly?

Q.33 Differentiate between Bridges & Repeaters?

Q.34 Draw the IPV4 reader and Explain in Brief the function of each field.

Q.35 What is WiFi? How does it differ from Bluetooth ?

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

Q.36 What is network topology? Discuss various Network topologies with their diagrams?

Q.37 Explain OSI reference model with diagram in details

Q.38 Write a short note on any two of the following:

i)   DHCP Server

ii)   Bluetooth Technology

iii) Loop back Tetting