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Roll No.

181051

**5th Sem / Branch : Eltx
Sub. : Computer Networks**

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 A system that provides communication in both direction but not simultaneously- (CO-1)
a) Full duplex b) Half duplex
c) Simplex d) Automatic
- Q.2 TCP/IP model does not have _____ layer but OSI model have this layer. (CO-3)
a) Session layer b) Transport layer
c) Application layer d) Network layer
- Q.3 How many levels of addressing is provided in TCP/IP protocol? (CO-3)
a) One b) Two
c) Three d) Four
- Q.4 10 Base T is also called _____ (CO-2)
a) Thin Ethernet b) Thick Ethernet
c) Fast Ethernet d) Twisted pair Ethernet
- Q.5 A _____ connects two or more LANs that are totally dissimilar. (CO-8)
a) Switch b) Bridge
c) Gateway d) Router

- Q.6 WiMAX stands for _____. (CO-9)
a) Wireless maximum communication
b) Worldwide interoperability for microwave access
c) Worldwide international standard for microwave access
d) Wireless internet maximum communication
- Q.7 A hut that contain microprocessor and can be controlled by remote too is called _____. (CO-8)
a) Active hub b) Passive hub
c) Smart hub d) None of these
- Q.8 The bus topology is also known as _____. (CO-1)
a) Hierarchical topology
b) Vertical topology
c) Horizontal topology
d) None of these
- Q.9 _____ connector is used for plugging in telephone handsets. (CO-2)
a) Rj11 connector b) BNC connector
c) SC/St connector d) Rj45 connector
- Q.10 A disk management tool that comes with Windows NT/2000/XP. (CO-8)
a) RAID b) DNS
c) Cryptography d) None of these

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SECTION-B

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

Q.11 ____ network is connection of two or more computers which are geographical dispersed. (CO-1)

Q.12 Wi-Fi stands for _____. (CO-9)

Q.13 ____ is the lowest layer in TCP/IP reference model. (CO-3)

Q.14 DNS server is also called ____ server. (CO-8)

Q.15 NIC stands for _____. (CO-4)

Q.16 Define logical addressing. (CO-5)

Q.17 ____ layer is known as host to host layer. (CO-3)

Q.18 Define encryption. (CO-1)

Q.19 MAN stands for _____. (CO-1)

Q.20 IP address 129.11.17.21 belongs to class _____. (CO-5)

SECTION-C

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

Q.21 Differentiate between LAN, MAN, WAN. (CO-1)

Q.22 Explain various elements of computer network. (CO-1)

Q.23 Explain TCP/IP structure. (CO-3)

Q.24 Discuss mesh topology along with its advantages and disadvantages. (CO-3)

Q.25 Discuss briefly the working and specification of Fast Ethernet. (CO-3)

Q.26 Explain various classes used in IP addressing. (CO-8)

Q.27 What is a hub? Explain different types of hub. (CO-8)

Q.28 Explain the concept of supernetting. (CO-7)

Q.29 Explain how router is configured. (CO-6)

Q.30 What are uses of BNC connector and Rj45 connector? (CO-2)

Q.31 Explain Net to Phone telephony in brief. (CO-8)

Q.32 Define cryptography. Why it is necessary? (CO-8)

Q.33 Explain RAID management in brief. (CO-8)

Q.34 What is WLAN and how does it work? (CO-9)

Q.35 Write any five differences between WiMax and Li.Fi. (CO-9)

SECTION-D

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

Q.36 Explain OSI reference model with diagram in detail. (CO-3)

Q.37 Explain different switching techniques. (CO-1)

Q.38 Write a short note on
1) Repeaters 2) VOIP (CO-8)