

No. of Printed Pages : 4
Roll No.

181051

5th Sem / Eltx
Subject:- Computer Networks

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 Which protocol layer uses WWW, HTP, FTP , SMTP, email etc
a) Application layer protocol
b) Transport layer protocol
c) Internet layer protocol
d) Hardware layer protocol
- Q.2 Asynchronous protocols are widely used in
a) Repeaters b) Routers
c) Modems d) Bridges
- Q.3 _____ layer protocol contains rules for line discipline, flow control and error handling
a) Data link b) Network
c) Physical d) Transport
- Q.4 The idea of preventing one component affecting from another through their common electric and magnetic field is referred to as
a) Hall effect b) Grounding
c) Shielding d) Limiting

- Q.5 Which topology requires a multipoint connection?
a) Ring b) Bus
c) Star d) Mesh
- Q.6 What type of transmission is involved in communication between a computer and a keyboard?
a) Half Duplex b) Full Duplex
c) Simplex d) Automatic
- Q.7 Which type of device connects two networks?
a) Bridge b) Hub
c) Repeater d) Gateway
- Q.8 Which of the following is speed of 10Gbit Ethernet?
a) 100MB/s b) 15 MB/s
c) 1250 MB/s d) 500 MB/s
- Q.9 What is the main goal of ethical hacking?
a) To cause damage to a system
b) To gain unauthorized access to a system
c) To identify and fix security vulnerabilities
d) To steal sensitive information
- Q.10 Which topology is used in Ethernet?
a) Bus b) Ring
c) Tree d) Mesh

(1)

181051

(2)

181051

SECTION-B

Note: Objective type questions. All questions are compulsory. $(10 \times 1 = 10)$

- Q.11 WiFi is an acronym for _____
- Q.12 The client and server use a _____ to communicate on most of the networks.
- Q.13 Broadband modems uses the voice frequencies to communicate over telephone line.(T/F)
- Q.14 _____ is a LAN architecture which was developed by XEROX.
- Q.15 Name the layer which is responsible for sending packets through different networks.
- Q.16 What do you mean by protocol.
- Q.17 Define IP address.
- Q.18 Define encryption.
- Q.19 A closed loop of devices is formed in _____ topology.
- Q.20 VPN stands for _____.

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. $(12 \times 5 = 60)$

- Q.21 Why do we need a network?
- Q.22 What is an OSI reference model? Write the names of its different layers.

- Q.23 How can we compute the maximum number of hosts for a Subnet Mask?
- Q.24 Differentiate between TCP/IP and OSI model.
- Q.25 What is Ethernet?
- Q.26 What do you understand by VSAT? Explain in brief.
- Q.27 What is a bridge? How many types of bridges are used in a network?
- Q.28 Describe the architecture of HUB.
- Q.29 What do you understand by print spooling?
- Q.30 Explain Web server in detail.
- Q.31 What is the need of RAID?
- Q.32 Write a short note on cryptography.
- Q.33 What is IEEE 802.11?
- Q.34 What are the advantages of WiFi networking?
- Q.35 Explain various types of encryption.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. $(2 \times 10 = 20)$

- Q.36 What do you mean by multiplexing? Write in brief about TDM and FDM.
- Q.37 What is VOIP? Explain its architecture.
- Q.38 What is MODEM? What are its types and different functions.