

2014

Time : 3 hours

Full Marks: 70

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer from **all** the Groups are directed.

Group – A

(Objective-type Questions)

1. Answer the following multiple choice questions: $1 \times 15 = 15$
 - a) A Network that requires human intervention of route signals is called a:
 - i. Bus Network
 - ii. Ringing Network
 - iii. Star Network
 - iv. None of these
 - b) In Networking terminology UTP means:
 - i. Unshielded twisted pair
 - ii. Ubiquitous Teflon port
 - iii. Uniformly terminating
 - iv. Unshielded T-connector port

- c) What port of 192.168.10.51 is the Network ID, assuming a default subnet mask?
- 192
 - 192.168.10
 - 51
 - 0.0.0.5
- d) Which of the following TCP/IP protocol is used for transferring electronic mail from one machine to another?
- FTP
 - SNMP
 - SMTP
 - RPC
- e) Which of the following is not a type of computer network?
- LAN
 - PAN
 - RAN
 - MAN
- f) Full form of NIC is:
- Network Interface Card
 - New Interface Connection
 - Net Interface Card
 - Network Interface Connection
- g) What is the minimum number of wire required for sending data over a serial communication link?
- 2
 - 1
 - 4
 - 3

- h) The _____ terminal has processor in it.
- i. Intelligent
 - ii. Transmission
 - iii. Router
 - iv. Bridge
- i) A required characteristic of an online real time system is:
- i. More than 1 CPU
 - ii. Off-line batch process
 - iii. No delay in process
 - iv. All of these
- j) A band is always equivalent to:
- i. A byte
 - ii. A bit
 - iii. 100 bps
 - iv. None of the above
- k) Which of the following perform modulation and demodulation?
- i. Fiber optic
 - ii. Satellite
 - iii. Co-axial cable
 - iv. Modem
- l) Which of the following is not a transmission medium?
- i. Telephone line
 - ii. Co-axial cable
 - iii. Modern
 - iv. Micro wave system
- m) Repeater works in which of the following OSI Layer?
- i. Physical layer

- ii. Transport layer
 - iii. Application layer
 - iv. None of the above
- n) File transfer and access is:
- i. FTP
 - ii. FFTP
 - iii. NFS
 - iv. All of the above
- o) An electronic mail is:
- i. SMTP
 - ii. RARP
 - iii. ATM
 - iv. FTP

Group – B

(Short-answer Type Questions)

2. Answer any **five** questions of the following: $4 \times 5 = 20$
- a) Explain User Datagram Protocol.
 - b) What are error and control messages?
 - c) Discuss Internet Group Management Protocol?
 - d) What is Internet Security?
 - e) Explain Electronic mail.
 - f) What is ATMARP?
 - g) Explain Socket.

Group – C
(Long-answer Type Questions)

Answer any **five** questions of the following: **7x5=35**

3. Explain how does a Router work.
4. What are the basic security requirements of a network?
5. Write short notes on the following:
 - a) SMTP
 - b) MIME
6. Explain Socket Interface in details.
7. Explain TCP/IP over ATM.
8. Describe Application Protocols.
9. Describe Routing Protocols.

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For more questions visit: <https://www.guptatreepoint.com/marwari-college-previous-year-question-paper/>