



MU-2011135

Seat No. _____

M. Sc. I.T. (Sem. II) Examination

April / May - 2012

EMY-2043 : Networking Fundamentals (ELE-1)

Time : 3 Hours]

[Total Marks : 70

- 1** Answer any four of the following questions : **20**
- (i) Explain centralized computing and peer-to-peer Networking.
 - (ii) What is client-server networking ? Explain master-slave networking.
 - (iii) Explain development of LAN and WAN networking.
 - (iv) Differentiate ISDN Vs PSTN.
 - (v) What is network topology ? Explain each in brief with diagram.
- 2** Attempt any four of the following : **20**
- (i) Explain spanning tree algorithm.
 - (ii) Explain following network devices.
 - (a) Router
 - (b) Repeater
 - (c) Bridge
 - (d) Hub
 - (e) Brouter
 - (iii) Explain ATM and PPTP.
 - (iv) What is token ring FDDI ? Explain it with FDDI fault tolerance.
 - (v) List the types of cabling and explain fiber optics in details.

- 3 Attempt any four of the following : 20
- (i) What is DNS ? Explain DNS name and IP address resolution.
 - (ii) What is DHCP ? Explain it brief with DHCP configuration.
 - (iii) What is NetBIOS ? explain NetBIOS discovery methods.
 - (iv) What are subnet masks ? Explain it with example. Explain classes of IP addressing.
 - (v) Explain new features of TCP/IP in windows 2000.
- 4 Attempt any one of the following : 10
- (i) What is network protocol ? Explain OSI 7-layers reference model in detail with diagram.
 - (ii) What is TCP/IP ? Explain TCP/IP standards with architecture and compare it with OSI architecture.
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RP-2011135

Seat No. _____

M. Sc. (IT & CA) (Sem. II) Examination

June - 2011

EMY - 2043 : Networking Fundamentals

(New Course)

Time : 3 Hours]

[Total Marks : 70

- 1 Answer the following questions : (any **three**) **15**
- (i) Differentiate peer to peer networking with client server networking.
 - (ii) Explain WAN, MAN LAN
 - (iii) What is the use of Network adapter card ?
 - (iv) Explain Ethernet limitations.
- 2 Answer any **two** : **20**
- (i) What is ISDN ? Explain components of ISDN.
 - (ii) Explain functions of network and transport layer of OSI.
 - (iii) Write a note on internet control message protocol (ICMP)
- 3 Answer the following questions : (any **three**) **15**
- (i) Explain functions of Repeaters, Hubs, switched Hubs
 - (ii) Write a note on NetBIOS name discovery methods.
 - (iii) What is DSN ? Explain its use.
 - (iv) What is the functions of IP address Resolution ?
- 4 Answer any **two** : **20**
- (i) Write a detail note on dynamic configuration DHCP.
 - (ii) Write a note on the history of TCP/IP.
 - (iii) Explain protocol data unit (PDU).
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