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

May / June – 2015

**EMY-2043 Networking Fundamentals**

**Elec-1**

**Faculty Code : 003**

**Subject Code : 008206**

Time : $2\frac{1}{2}$ Hours]                                [Total Marks : **70**

**Instructions:** (1)    All main questions are compulsory

(2)    Draw diagrams wherever necessary

1    Attempt the following questions : **(any five).**                       **25**

(1)    What is network topology? Explain each in brief with diagram.

(2)    Write in detail about Intranet, Extranet and Internet.

(3)    Explain the use of UDP and TCP Protocol in TCP/IP protocol suite.

(4)    What is token ring FDDI? Explain it with FDDI fault tolerance.

(5)    Write difference between coaxial cable and Twisted Pair cable.

(6)    What are Subnet Masks? Explain it with example.

2    Attempt the following questions : **(any five).**                       **25**

(1)    What is DHCP? Explain in brief with DHCP configuration.

(2)    Write short note on Internet Group Management Protocol (IGMP)

(3) Explain Sub Netting and Super Netting.

(4) Write short note on primary and secondary WINS Servers.

(5) Explain: LAN, MAN and WAN.

(6) Explain testing and troubleshooting of DNS Server services.

**3** Attempt the following questions : **(any two)**                                    **20**

(1) Explain Cooperative Networking, peer-to-peer networking client/server Networking

(2) What is Network Protocol? Explain OSI Layers reference model in detail with diagram.

(3) Write short note on ISDN and also compare with PSTN.

———————