



**NBW-003-008206**

Seat No. \_\_\_\_\_

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

**April/May – 2017**

**EMY-2043 : Networking Fundamentals Elec. - 1**  
*(Old Course)*

**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 transparent bridge ? Explain with diagram.
- (2) Explain testing and troubleshooting of DNS Server services.
- (3) Explain the use of UDP and TCP protocol in TCP/IP protocol suite.
- (4) List and explain the physical components used to establish network.
- (5) Explain Distributed Fiber Optic Technology.
- (6) Write in detail about Intranet, Extranet and Internet.

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

- (1) Explain Layer-2 switching in detail.
- (2) Explain Sub Netting and Super Netting.

- (3) Write short note on primary and secondary WINS Servers.
- (4) Write difference between peer-to-peer network and client/server network.
- (5) Explain OSI layer model in detail.
- (6) Write short note on ISDN and also compare with PSTN.

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

- (1) Write short note on X.23 Frame Relay model.
- (2) Explain Classless IP address notation with suitable example.
- (3) Write short note on DNS.

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