**B.Sc. DEGREE EXAMINATION, APRIL 2016**

**III YEAR — VI SEMESTER**

**Major Paper IX — COMPUTER NETWORKS**

**Time : 3 hours Max. Marks : 75**

**SECTION A — (10 × 2 = 20 marks)**

**Answer any *TEN* questions.**

1. Explain computer networks.
2. What is connection oriented and connectionless service?
3. What are the data link layer design issues?
4. Define framing in data link layer.
5. What is medium access control?
6. Define CSMA.
7. What is store and forward in routing?
8. Define routing.
9. What is cryptography?
10. What is DNS?
11. List down the OSI Layers.
12. List down the TCP/IP layers.

**SECTION B — (5 × 5 = 25 marks)**

**Answer any *FIVE* questions.**

1. Discuss about TCP/IP Reference model with suitable diagram.
2. Explain about error-correcting and error-detecting codes.
3. Write short notes on Ethernet.
4. Discuss the concept involved in Congestion control in virtual subnet.
5. Explain about elements of transport protocol.
6. Describe in detail about transmission media.
7. Discuss about the following:
8. Error control (b) Flow control.

**SECTION C — (3 × 10 = 30 marks)**

**Answer any *THREE* questions.**

1. Explain in detail about ISO OSI Reference model with a neat diagram.
2. Discuss about any one sliding window protocol in DLL.
3. Explain in detail about wireless 802.11.
4. Discuss in detail about any three routing algorithm with a neat diagram.
5. Explain in detail about TCP.

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