

Roll No. ....

**24328**

**B. Tech. 6th Semester (CSE)**

**Examination – May, 2016**

**COMPUTER NETWORK**

**Paper : IT-305-F**

***Time : Three Hours ]***

***[ Maximum Marks : 100***

*Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.*

**Note :** Q. 1 is *compulsory*. Attempt *one* question from each section. All questions carry equal marks.

**1. Explain the following :**  $5 \times 4 = 20$

(a) RARP

(b) ATM

(c) DQDB

(d) ARPANET

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P. T. O.



### SECTION – A

2. What is a computer network ? Explain the types of computer networks and its topologies in detail. 20
3. Explain the working of OSI model with Proper Diagram. 20

### SECTION – B

4. (a) What do you mean by Transmission Control Protocol Header ? Explain in detail. 10
- (b) Explain the IPV4 and IPV6. What is the difference between IPV4 and IPV6 ? 10
5. Explain various Application Layer Protocols of TCP/IP.

### SECTION – C

6. (a) Explain IEEE802 Standards in detail. 10
- (b) What do you mean by CSMA collision detection. Explain ? 10
7. Explain various WAN Technologies in detail. 20

### SECTION – D

8. (a) What is Remote Monitoring Technique ? Explain in Detail. 10
- (b) What do you mean by Synchronous Digital Hierarchy Synchronous Optical Network ? Explain
9. (a) Explain the following : 20
- (i) Firewall
  - (ii) Proxy Server
  - (iii) VLAN
  - (iv) Client Server Infrastructure