C09–IT–606C

3780

BOARD DIPLOMA EXAMINATION, (C–09)
OCT/NOV—2013
DIT—SIXTH SEMESTER EXAMINATION

INTERNETWORKING WITH TCP/IP

Time : 3 hours]   [*Total Marks* : 80

PART—A

Instructions : (1) Answer **all** questions.

   (2) Each question carries **three** marks.

   (3) Answer should be brief and straight to the point and shall not exceed *five* simple sentences.

1. What is a Router?

2. Explain briefly about primary and backup RARP server.

3. Explain about ARP implementation.

4. Explain the concept of connectionless delivery system.

5. Define virtual network.

6. Define the purpose of Internet protocol.

7. Explain about indirect delivery.

8. Explain about routing with IP addresses.

9. Define ICMP.

10. Give the ICMP message format.

PART—B

Instructions : (1) Answer *any* **five** questions.

(2) Each question carries **ten** marks.

(3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

11. *(a)* Explain about application level interconnection and network level interconnection.

(b) Explain about interconnection through routers.   6+4=10

12. *(a)* Explain about ARP protocol format.

(b) Explain about timing RARP transactions.   7+3=10

13. Briefly explain about Internet datagram.   10

14. Explain about Internet datagram options.   10

15. *(a)* Explain the concept of unreliable delivery.

(b) What is timestamp option?   5+5=10

16. Explain IP routing algorithm.   10

17. *(a)* Explain about table driven IP routing.

(b) Explain about host specific router.   5+5=10

18. *(a)* Explain about error reporting vs error correction.

(b) Explain about ICMP message delivery.   5+5=10

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