



C09-IT-606 C

3780

BOARD DIPLOMA EXAMINATION, (C-09)

OCT/NOV—2014

DIT—SIXTH SEMESTER EXAMINATION

INTERNETWORKING WITH TCP/IP

Time : 3 hours]

[Total Marks : 80

PART—A

3×10=30

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

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

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

1. What is a router?

2. Write about Reverse Address Resolution Protocol (RARP).

3. Give the ARP protocol format.

4. Give datagram format and explain.

5. What is reassembly of fragment?

6. Briefly explain datagram encapsulation.

7. What is meant by next-hop routing?

- * 8. Define routing of IP datagram.
- 9. Write a short note on ICMP message format.
- 10. Write on testing destination reachability and status.

PART—B

10×5=50

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 application-level interconnection. 5
 (b) Explain network-level interconnection. 5
- 12. (a) Explain ARP refinement. 5
 (b) Explain resolution through direct mapping. 5
- 13. Explain all the Internet datagram options. 10
- 14. (a) Explain the purpose of Internet protocol. 6
 (b) Explain fragmentation control briefly. 4
- 15. (a) Explain other datagram header fields. 6
 (b) Explain connectionless delivery system. 4
- 16. (a) Explain routing with IP addresses. 6
 (b) Explain handling incoming datagram. 4
- 17. (a) Explain direct delivery and indirect delivery. 6
 (b) What is table-driven IP routing? 4
- 18. (a) Explain echo-request and reply message format. 5
 (b) Explain what ICMP is meant by. 5
