



C09-IT-606 C

3780

BOARD DIPLOMA EXAMINATION, (C-09)

OCT/NOV—2015

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. Write a short note on router.
2. What is address resolution through direct mapping?
3. Briefly explain Reverse Address Resolution Protocol.
4. Define a virtual network.
5. Give the concept of unreliable delivery.
6. What is the purpose of Internet protocol?
7. What is meant by next hop routing?

- * 8. Write about host specific routing.
- 9. Discuss about error reporting vs. error correction.
- 10. Give echo request and reply message format

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 Internet service. 5
 (b) Explain network Internet service. 5
- 12. (a) Draw and explain ARP protocol format. 6
 (b) Explain ARP encapsulation and identification. 4
- 13. Draw the Internet datagram format and explain.
- 14. Explain Internet datagram options.
- 15. (a) Explain circuit switching and packet switching. 6
 (b) Explain connectionless delivery system. 4
- 16. (a) Explain direct and indirect delivery. 6
 (b) Explain default routing. 4
- * 17. Give IP routing algorithm.
- 18. (a) Explain ICMP message delivery. 5
 (b) Explain ICMP message format. 5
