



C09-IT-606C

3780

BOARD DIPLOMA EXAMINATION, (C-09)
MARCH/APRIL—2017
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 the internet architecture board.
2. Give ARP refinements.
3. Define RARP.
4. What is meant by record route option?
5. Briefly explain connectionless delivery system.
6. Discuss about time to live field.
7. Write a short note on how to handling incoming datagram.
8. What is meant by default router?

- * 9. Briefly explain echo request and reply message format.
10. Write short notes on error reporting and error correction.

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 router. 3
 (b) Explain interconnection through IP routers in internet architecture. 7
12. (a) Explain timing RARP transaction. 6
 (b) Explain ARP encapsulation and identification. 4
13. (a) Explain the purpose of internet protocol. 5
 (b) Explain the concept of unreliable delivery. 5
14. (a) Explain datagram size, network MTU and fragmentation. 6
 (b) Explain reassembly of fragments. 4
15. (a) Define circuit switched and packet switched network. 4
 (b) Explain source route option and timestamp option. 6
16. (a) Explain next-hop routing and host-specific router. 6
 (b) Write a short note on direct delivery service. 4
- * 17. (a) Write the IP routing algorithm. 5
 (b) Explain routing with IP addresses. 5
18. Explain briefly about the internet control message protocol. 10
