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BOARD DIPLOMA EXAMINATION, (C–09)
MARCH/APRIL—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 router?

2. Write a brief note on backup RARP server.

3. Write short notes on ARP encapsulation and ARP identification.

4. Briefly explain reassembly of fragments and time to live field.

5. Write about the concept of unreliable delivery.

6. What is virtual network?

7. Briefly explain establishing routing table.

8. Write a short note on next hop routing.

9. Write a short note on reports on unreachable destinations.

10. Write a short note on testing destination reachability and status.

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PART—B 10×5=50

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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. Explain briefly about Internet services and Internetworking concept. 5+5

12. Briefly explain the ARP protocol format.

13. Explain briefly other datagram header fields.

14. Explain the following : 3+4+3

(a) Datagram format

(b) Datagram type of service and datagram precedence

(c) Datagram encapsulation

15. Write about the Internet datagram options : 5+5

(a) Source route option

(b) Timestamp option

16. Explain the following : 5+5

(a) Routing with IP address

(b) Handling of incoming datagram

17. Explain direct and indirect delivery. 5+5

18. Explain the ICMP message delivery and format. 5+5

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