C14–IT–**505**

4647

BOARD DIPLOMA EXAMINATION, (C–14)

MARCH/APRIL—2018

DIT—FIFTH 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. Define the concept of internetworking.

2. Briefly explain ARP refinement.

3. Write in brief about primary and backup RARP server.

4. Define virtual network.

5. State the purpose of internet protocol.

6. Write a short note on connectionless delivery system.

7. Explain briefly the concept of routing in an internet.

8. What is meant by host specific router?

9. Write in brief about ICMP.

10. Write a short note on ICMP message format.

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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 in detail about the following internet services : 5+5=10

(a) Application level internet services

(b) Network level internet services

12. Explain the following address resolution problems : 5+5=10

(a) Resolution through direct mapping

(b) Resolution through dynamic binding

13. Differentiate between circuit-switched network and packet-switched network. 10

14. Explain in detail about the internet datagram format. 10

15. Describe about internet datagram options. 10

16. Explain direct and indirect delivery. 10

17. Explain about IP routing algorithm. 10

18. Write in detail about error reporting and error correction. 10

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