

**4647****BOARD DIPLOMA EXAMINATION, (C-14)****MARCH /APRIL-2019****DIT – FIFTH SEMESTER EXAMINATION****INTERNETWORKING WITH TCP/IP**

Time: 3 Hours

Max. Marks:80

**PART-A****10X3=30M**

**Instructions :** 1) Answer **all** questions.  
2) Each question carries Three marks.  
3) Answer should be brief and straight to the point and shall not exceed simple sentence

- 1) Define Router and state its need.
- 2) Briefly explain ARP implementation.
- 3) Write about Timing RARP Transactions.
- 4) Write in brief about Internet Architecture.
- 5) Write about Datagram Encapsulation.
- 6) Write short notes on Time stamp option.
- 7) Explain briefly the concept of Table driven IP Routing.
- 8) What is meant by Default-Router?
- 9) Write in brief about ICMP.
- 10) Write short notes on Echo Request and reply message format.

*[Contd...*

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## PART-B

**5X10=50**

**Instructions:** 1) Answer any **five** questions.  
2) Each question carries ten marks.  
3) The answer should be comprehensive and the criteria for valuation is content but not the length of the answer.

- 11) Explain in detail about Internet working concept.
  - a) Application level Interconnection
  - b) Network level Interconnection
- 12) Describe the Address Resolution Problem
  - a) Resolution through Direct Mapping.
  - b) Resolution through Dynamic Binding.
- 13) Explain Connectionless Delivery System.
- 14) Write in detail about the internet Datagram Format.
- 15) Explain about Internet Datagram Options.
- 16) Explain Direct and Indirect delivery.
- 17) Explain about IP Routing Algorithm.
- 18) Explain in detail about Testing destination Reachability and status(ping)

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