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## Code No: 115DT

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## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

## B. Tech III Year I Semester Examinations, March - 2017 COMPUTER NETWORKS

(Common to CSE, IT)

Time: 3 hours Max. Marks: 75 **Note:** This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions. PART - A **(25 Marks)** 1.a) What is the use of datalink layer? [2] What is ARP? Explain. b) [3] c) Explain about Broadcast link. [2] Give the classification of multiple access protocols. [3] d) Write any two services network layer provides to transport layer. e) [2] Explain about datagram and virtual circuit. [3] f) What is internetworking? [2] g) List out the internetworking devices. h) [3] i) What is the role of UDP in internet transport protocol? [2] What is TELENET? i) [3] **PART-B (50 Marks)** Explain about various transmission media in physical layer with a neat sketch. 2. [10] Elaborate on the design issues of data link layer. 3. [10] 4. Write in detail on Time–Division Multiplexing and Frequency-Division Multiplexing with an example for each. [10] 5. Write and explain about various multiple access protocols. [10] Explain the Optimality Principle with a suitable example. 6. [10] 7. Explain distance vector routing algorithm. [10] 8. What happens when large packet wants to travel through network with smaller maximum packet size? Explain. [10] OR 9. Explain tree-structured numbering scheme. [10] 10. Explain about RPC with a neat sketch. [10]

What is DNS? What are the services provided by DNS and explain how it works.

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