R13

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]
b)	What is ARP? Explain.	[3]
c)	Explain about Broadcast link.	[2]
d)	Give the classification of multiple access protocols.	[3]
e)	Write any two services network layer provides to transport layer.	[2]
f)	Explain about datagram and virtual circuit.	[3]
g)	What is internetworking?	[2]
h)	List out the internetworking devices.	[3]
i)	What is the role of UDP in internet transport protocol?	[2]
j)	What is TELENET?	[3]

PART-B

(50 Marks)

2. Explain about various transmission media in physical layer with a neat sketch. [10]

OR

3. Elaborate on the design issues of data link layer. [10]

4. Write in detail on Time–Division Multiplexing and Frequency-Division Multiplexing with an example for each. [10]

OR

5. Write and explain about various multiple access protocols. [10]

6. Explain the Optimality Principle with a suitable example. [10]

OR

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]

OR

11. What is DNS? What are the services provided by DNS and explain how it works. [10]

---ooOoo---