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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA III Semester Examinations, June/July - 2018 COMPUTER NETWORKS

Time: 3hrs 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

		5×5 Marks = 3
1.a)	Compare OSI Reference Model with TCP/IP Reference Model.	[5]
b)	Describe P-persistent CSMA Protocol.	[5]
c)	Explain Optimality principle.	[5]
d)	List the major goals of IPv6.	[5]
e)	What resource records are associated with DNS? Explain.	[5]

PART - B

 $5 \times 10 \text{ Marks} = 50$

25

 What is the need of Framing? Explain Character Stuffing and bit stuffing methods for framing. [10]

OR

- Illustrate OSI reference model and functionality of each layer in detail. [10]
- 4.a) Explain the basic idea of ALOHA system? Describe the efficiency of ALOHA channel.
 b) Discuss in detail about the Learning Bridges. [5+5]

OB

- Discuss in detail about CSMA with Collision Detection Protocol.
 - Describe the use of repeaters and gateways in network, transport and application layers.

Explain the implementation of connection less service in network layer.

b) Describe in detail about the Hierarchical routing. [5+5]

OR

- 7.a) Describe shortest path routing algorithm with suitable example.
 - Explain Traffic-Aware Routing for Congestion Control. [5+5]

8.a) Explain in detail about The Dynamic Host Configuration Protocol.

b) Describe the Services provided by Transport Layer to the Upper Layers. [5+5]

OR

Draw IPv6 Header format and explain each field in the IPv6 header. [10]

Explain briefly about the Remote Procedure call.

b) Describe in detail about the Name Servers in DNS. [5+5]

OR

- 11.a) Draw and explain various fields in UDP Header.
 - Explain in detail about the File Transfer Protocol. [5+5]

