

R17

Code No: 5458AB

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M. Tech I Semester Examinations, June/July - 2018

COMPUTER NETWORKING

(Computer Science and Engineering)

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 = 25

- 1.a) Write about ATM. [5]
- b) What is the role of Router and switch? [5]
- c) What is structure of DNS? [5]
- d) What is Frame Relay and explain? [5]
- e) Write about Kerberos? [5]

PART - B

5 × 10 Marks = 50

2. Give the significance of layered architecture. Explain client server architecture model with neat diagram. [10]

OR

- 3.a) Discuss the different types of switching techniques available for data transmission.
- b) Discuss about packet switching delays and congestion. [5+5]
- 4.a) Explain CIDR.
- b) Explain transition from IPV4 to IPV6. [5+5]

OR

5. Explain how to build a routing table. Compare static routing with dynamic routing. [10]

6. Describe TCP header format in detail. What is the difference between persistent HTTP with pipelining and persistent HTTP without pipelining? [10]

OR

- 7.a) Highlight the features of UDP and briefly discuss the same.
- b) What is a webpage? Explain how a web page can be written in HTML. [5+5]

8. Explain cellular network architecture. And discuss 3G and 4G networks. [10]

OR

- 9.a) Explain the function of basic optical networking devices.
- b) Explain MAC layer of IEEE 802.11 wireless LAN standard. [5+5]

10. Write short note on the following:

- a) Multiprotocol Label Switching
- b) VoIP signaling Protocols. [5+5]

OR

- 11.a) Discuss the functions of each SONET layer.
- b) How does SONET carry data from a DS-1 Service? [5+5]