

Code No: 5405AB

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M.Tech I Semester Examinations, January - 2020

COMPUTER NETWORKING

(Computer Science)

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 the drawbacks of Packet Switching. [5]
- b) Give differences between request-response messages and trap messages in SNMP. [5]
- c) What is DNS? Write the services of DNS. [5]
- d) Explain addressing mechanisms in IEEE 802.11. [5]
- e) What is data center networking? Write the challenges of data center networking? [5]

**PART - B****5 × 10 Marks = 50**

- 2.a) Discuss the popular wireless internet access technologies and Compare and contrast them.
  - b) Compare Packet switching with circuit switching. [5+5]
- OR**
3. Give a note on Asynchronous transfer mode in detail. [10]
- 4.a) What is ICMP? Explain different messages in ICMP and also explain every field of message.
  - b) Describe dual desk approach in IPV6. [5+5]
- OR**
5. Explain: a) RIP protocol      b) IGRP protocol. [5+5]
- 6.a) Describe TCP segment header in detail.
  - b) Explain congestion control mechanism in TCP. [5+5]
- OR**
- 7.a) Elaborate HTTP request message format.
  - b) Compare TCP and UDP protocols. [5+5]
8. Explain the architecture of IEEE 802.11 with suitable diagram. [10]
- OR**
- 9.a) Give a detailed note on tunneling and encapsulation in mobile IP.
  - b) Explain different layers of Bluetooth. [5+5]
- 10.a) Give a detailed note on Kerberos.
  - b) Write the services of IPSec. [5+5]
- OR**
- 11.a) What is SSL and describe the record format of SSL.
  - b) Explain different types of data center networks. [5+5]