

Code No: 5405AB

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**M. Tech I Semester Examinations, December – 2018/January - 2019****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) Explain briefly about peer-to-peer network. [5]
- b) Discuss the functionalities of Standard Network Management Protocol. [5]
- c) Explain in detail about Domain Name Service. [5]
- d) Discuss the Advanced features in 802.11 [5]
- e) How is Virtual local area network connected? Explain. [5]

PART - B**5 × 10 Marks = 50**

- 2.a) Give the cell format and connection setup in ATM networks.
 - b) Differentiate between packet switching and circuit switching. [5+5]
- OR**
3. Briefly explain following with neat sketch.
 - a) Content Distribution Networks
 - b) Delay Tolerant Networks. [5+5]
 4. Explain Datagram format of IPv6 and compare with IPv4. [10]
- OR**
- 5.a) Explain how to build a routing table. Compare static routing with dynamic routing.
 - b) Describe in brief about Internet Control Message Protocol. [5+5]
 - 6.a) Describe TCP header format in detail. What is the difference between persistent HTTP with pipelining and persistent HTTP without pipelining?
 - b) Discuss the Coexistence of UDP and TCP flows. [6+4]
- OR**
- 7.a) Explain the TCP three way handshake protocols for connection establishment.
 - b) Discuss about TCP Tahoe and TCP Reno. [5+5]

- 8.a) List and explain the characteristics of wireless networks.
b) Explain the CDMA in wireless networks. [5+5]
- OR**
- 9.a) How to manage the mobility in cellular networks.
b) Explain cellular network architecture. And discuss 3G and 4G networks. [5+5]
10. Write short note on the followings:
a) Domain name system protection.
b) VOIP signaling Protocols. [5+5]
- OR**
- 11.a) Explain the standards of SONET/SDH.
b) How does SONET carry data from a DS-1 Service? [5+5]

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