

Reg No.: _____

Name: _____



Jyothi Engineering College(Autonomous)
M.Tech Degree S1 (R) Examination, December 2025 (2025 Scheme)



25PCSE106- ADVANCED COMPUTER NETWORKS

Total Mark: 60

Total Time: 2hr 30min

CO MARK

PART A

Answer All Questions

1. Compare Mobile TCP with standard TCP by analyzing how each handles packet loss and mobility events. CO1 (5)
2. Evaluate the effectiveness of Delay Tolerant Network's store-and-forward mechanism and custody transfer approach in ensuring reliable data delivery. CO2 (5)
3. How are digital data (bits) changed to analog signals (radio waves) in the radio layer of Bluetooth? CO3 (5)
4. Categorize the multimedia applications on the Internet and briefly explain their characteristics. CO4 (5)
5. Define OpenFlow specification used in SDN. CO5 (5)

PART B

Answer Any Five Question(s)

6. Explain the roles of Protocol Independent Multicast (PIM) and Multicast Source Discovery Protocol (MSDP) in IP multicasting. How do they differ in terms of functionality and operation within multicast routing? CO1 (7)
7. How RTP/ RTCP and SIP are used in wireless environment? CO2 (7)
8. Elaborate on the various elements of 4G LTE network and the interaction between them. CO3 (7)
9. Name the applications which use Zigbee standard and justify its use. CO4 (7)
10. Comment on the statement "Distributed Hash Tables are said to build structured P2P networks." CO3 (7)
11. Explain the architecture of the H.323 standard for multimedia communication over packet switched networks. CO4 (7)
12. Explain how Resilient overlay networks improves end-to-end Internet performance and reliability compared to traditional routing. CO5 (7)
