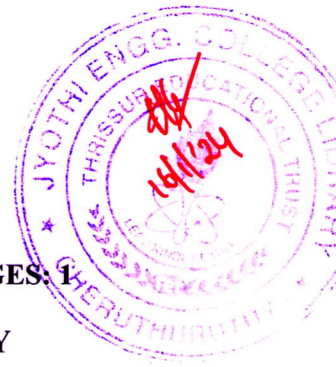


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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

FIRST SEMESTER M.TECH DEGREE EXAMINATION, JANUARY 2024

Course Code: 221ECS006

Course Name: Advanced Computer Networks

Max. Marks : 60

Duration: 2Hrs 30 Minutes

PART A

Answer All Questions. Each Question Carries 5 Marks

1. Illustrate with an example how standard TCP can be enhanced to support mobile users. (5)
2. Explain 4G cellular telephony in detail. (5)
3. how are digital data (bits) changed to analog signals (radio waves) in the radio layer of Bluetooth? (5)
4. Examine how IPV6 deals with the scalability problem in routing. (5)
5. Point out the concept behind data centre networking. (5)

Part B

(Answer any five questions. Each question carries 7 marks)

6. A router in DVMRP creates a shortest-path tree on demand. What is the meaning of this statement? What is the advantage of creating shortest path trees only on demand? (7)
7. How RTP/RTCP and SIP are used in wireless environment? (7)
8. Examine the issues affecting network performance and suggest solutions for the same. (7)
9. Show the evolution of cellular technologies from 3G to 5G. (7)
10. a. Comment on the statement "Distributed Hash Tables are said to build structured P2P networks". (4)
b. Explain Data Center Networking. (3)
11. How is VPN implemented using MPLS? (7)
12. Justify the need for Resource Reservation in multicast transmission. (7)
