Reg No: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

FIRST SEMESTER M.TECH DEGREE EXAMINATION, MARCH 2023

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.	Distinguish the various approaches in multicast routing.	(5)
2.	How is the problem of mobility solved in mobile routing?	(5)
3.	Examine the role of MPLS in Internet traffic management.	(5)
4.	Calculate the minimum time required to download $2*106$ bytes using ADSL modem with minimum rate.	(5)
5.	Examine the role of core network in 3G cellular data network.	(5)

Part B

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

6.	Justify the need for Resource Reservation in multicast transmission.	(7)
7.	Elaborate on the various elements of 4G LTE network and the interaction between them.	(7)
8.	Compare the media access techniques of Bluetooth and Zigbee.	(7)
9.	How do overlay networks introduce new functionality into the Internet?	(7)
10.	Sketch the superframe format of Zigbee 802.15.4 standard..	(7)
11.	Explain Data Center Networking.	(7)
12.	Illustrate how real time protocols support interactive applications like VoIP.	(7)

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