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School of Engineering**M.TECH Communication Engineering in Satellite Communication
Semester End Examination - Nov 2023****Duration : 180 Minutes
Max Marks : 100****Sem III - MCEN6009 - Data Communication Networks***General Instructions**Answer to the specific question asked**Draw neat, labelled diagrams wherever necessary**Approved data hand books are allowed subject to verification by the Invigilator*

- 1) Recall the CSMA protocol K1 (2)
- 2) Explain Bit oriented versus Byte oriented protocol. K2 (4)
- 3) Illustrate the working of CSMA/CA protocol K2 (6)
- 4) Make use of the transport layer to creates a communication between the source and destination. Explain, the three events involved in a connection. K3 (9)
- 5) Solve the Cyclic Redundancy Code(CRC) for data word: 110010101 with Generator = 10101 then n=5. K3 (9)
- 6) Interperate all category of Communication Satellites in computer network. K5 (10)
- 7) Analyze the tecniques used in data communication network. K4 (12)
- 8) Determine how routers differentiate the incoming unicast, multicast and broadcast IP packets. K5 (15)
- 9) Determine how routers differentiate the incoming unicast, multicast and broadcast IP packets. K5 (15)
- 10) Estimate your idea on how guided media differ from unguided media? Briefly explain any three methods used for data. communication using guided media and two methods used for data communication using unguided media. K6 (18)