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II Semester M.C.A. Degree Examination, December - 2024 COMPUTER SCIENCE Computer Networks (CBCS Scheme Y2K20) Paper:2MCA3

Time: 3 Hours

Maximum Marks: 70

Instructions to Candidates:

Answer any FIVE from Section - A and any FOUR from Section -B

SECTION-A

Answer any FIVE questions. Each question carries 6 marks.

 $(5 \times 6 = 30)$

- 1. What is computer Network? Explain different types of Computer network based in size.
- 2. Explain the causes of transmission impairments.
- 3. Explain the operation of CSMA/CD.
- 4. What is the transmission message for the bit stream 1101011111 using the generator polynomial g(x) = x4+x+1.
- 5. Explain Packet switching techniques for data transmission.
- 6. Briefly explain ICMPV4 Error Messages.
- 7. Explain the IPv6 data gram format with neat sketch. Mention the significance of each field.
- 8. Explain the service provided by the Transport Layer.

SECTION-B

Answer any FOUR questions. Each question carries 10 marks.

 $(4 \times 10 = 40)$

9. With a neat diagram explain the functions of each layer in the OSI reference model. (10)

[P.T.O.