

Code No: R17A0514**MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY****(Autonomous Institution – UGC, Govt. of India)****IV B.Tech I Semester Supplementary Examinations, April 2023****Computer Networks****(EEE & ECE)**

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Time: 3 hours**Max. Marks: 70**

Note: This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing ONE Question from each SECTION and each Question carries 14 marks.

SECTION-I

- 1 A Explain the OSI reference model if applied to a drone [10M]
 B With help of service primitives explain data transmission in a ISP network [4M]

OR

- 2 A Understand in detail about the guided media? [8M]
 B List differences between OSI model and TCP/IP models. [6M]

SECTION-II

- 3 A A bit string, 011110111110111110, needs to be transmitted at the data link layer. What is the string transmitted after bit stuffing? [4M]
 B Explain any one of coding method used to correct the data [10M]

OR

- 4 Explain bit-oriented Protocol used in ISP Network? [14M]

SECTION-III

- 5 Find the suitable method for fast internet line to domestic users. And explain how the method is suitable for the fast internet service. [14M]

OR

- 6 A Design a virtual LAN with a Cable Tv network as backbone network [10M]
 B What is bridging network how effectively it works in Networks. [4M]

SECTION-IV

- 7 A Explain the features of ICMP Protocol with a mail transmission unreachable in a network [8M]
 B Explain Distance vector Routing with an example. [6M]

OR

- 8 A Explain link state routing protocols used in computer networks [8M]
 B Explain how the metrics are counted in a network [6M]

SECTION-V

- 9 A Differentiate UDP and TCP protocols [4M]
 B Explain how to implement a connection less service using a Datagram service [10M]

OR

- 10 A Explain the Various technologies used to generate dynamic pages with a suitable diagram [10M]
 B Explain SMTP with client server protocol [4M]