

Code No: **R15A0514****MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY****(Autonomous Institution – UGC, Govt. of India)****IV B.Tech I Semester Supplementary Examinations, April 2023****Computer Networks****(ECE)**

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Time: 3 hours**Max. Marks: 75****Note:** This question paper contains two parts A and B

Part A is compulsory which carries 25 marks and Answer all questions.

Part B Consists of 5 SECTIONS (One SECTION for each UNIT). Answer FIVE Questions, Choosing ONE Question from each SECTION and each Question carries 10 marks.

PART-A (25 Marks)

- 1). a Define computer networks [2M]
- b Give the construction details of coaxial cable. [3M]
- c Write the functions of physical layer. [2M]
- d What is the need of Error Detection and Correction in Data Link Layer? [3M]
- e Draw the Ethernet frame format. [2M]
- f What is the use of bridge in computer networks [3M]
- g What is the significance of the Network layer in the internet [2M]
- h What is the difference between broad casting and multicasting? [3M]
- i What are the responsibilities of Transport layer? [2M]
- j What is the use of FTP? [3M]

PART-B (50 MARKS)**SECTION-I**

- 2 Explain the Layers of The OSI model? With neat diagram? [10M]
- OR

- 3 Understand in detail about the guided media? [10M]

SECTION-II

- 4 With the aid of suitable example explain CRC method of error correction. [10M]
- OR

- 5 Analyze HDLC in detail [10M]

SECTION-III

- 6 Write notes Fast Ethernet in detail [10M]
- OR

- 7 a. Write the difference between Wireless LANS and Wireless WANS [4M]
- b. Explain in detail about connecting LANS in [6M]

SECTION-IV

- 8 What is multicasting? Briefly discuss multicasting techniques?. [10M]
- OR

- 9 Explain Distance vector Routing with an example. [10M]

SECTION-V

- 10 What is World Wide Web? Explain details about HTTP [10M]
- OR

- 11 What is Congestion ?Explain congestion control techniques in Transport layer [10M]
