

Malla Reddy University
School of Engineering -Common for B. Tech CSE / AI&ML / DS
III Year I Semester Regular Examinations, January/February, 2023
Computer Networks - MR20-1CS0109

Time: 3 hours**Max Marks: 60**

Note: This question paper Consists of 5 Sections. Answer FIVE Questions, Choosing ONE Question from each SECTION and each Question carries 12 marks.

SECTION-I

1. a) Mention the few terminologies involved in Network Software. **6 M**
b) Write down the functions of Repeaters & Bridges in Networks **6 M**

OR

2. Write about OSI reference model. **12 M**

SECTION-II

3. Summarize the functionality of DLL layer in OSI model. Explain any two protocols of DLL Layer **12 M**

OR

4. a) Define collision. **2 M**
b) Justify with proper protocols for avoiding collision **10 M**

SECTION-III

5. Explain Network Layer Design Issues. **12 M**

OR

6. Write about congestion control Algorithms **12 M**

SECTION-IV

7. Summarize the Performance issues of Transport Layer. **12 M**

OR

8. a) Write about the Transport layer services. **5 M**
b) What are the elements of Transport Layer Protocols? **7 M**

SECTION-V

9. Outline the concept of Firewalls, WWW, DNS & SNMP **12 M**

OR

10. Elaborate the concept of Electronic Mail. **12 M**
