

Government College of Engineering, Amravati
(An Autonomous Institute of Government of Maharashtra)

Sixth Semester B. Tech (CS / IT)

Summer – 2016

Course Code: CSU603

Course Name: Computer Network

Time: 2 Hrs. 30 Min.

Max. Marks: 60

Instructions to Candidate

- 1) All questions are compulsory.
- 2) Assume suitable data wherever necessary and clearly state the assumptions made.
- 3) Diagrams/sketches should be given wherever necessary.
- 4) Use of logarithmic table, drawing instruments and non-programmable calculators is permitted.
- 5) Figures to the right indicate full marks.

1. Solve any two

- a) Discuss the ISO - OSI layered model with 6 functionalities of each layer.
- b) Define the term "Network". Explain different 6 types of networks with specific diagram.
- c) List the differences between logical, physical and 6 port addresses.

2. Solve any two

- a) What is HDLC? For what purpose it is used? 6
Explain its frame format.

- b) Write short note on Token Bus and FDDI. 6
- c) Explain in brief difference between pure ALOHA and slotted ALOHA 6

3. Solve any two

- a) Explain difference between bridge and router. 6
- b) Write short notes on LAN MAN and WAN. 6
- c) What is connection oriented network? Explain X.25 in detail. 6

4. a) Explain mail System with message format and MIME structure. 6
- b) What is TCP header structure? Explain with suitable diagram. 6

5. a) How TCP Connection is established? 6
- b) Explain services of transport layer in detail. 6