

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

M.E. (EC) Examination
End Semester Examination November-2016
ET510 : COMPUTER NETWORKS

Time: Three Hours

24 NOV 2016

Max. Marks: 60

“Verify the course code and check whether you have got the correct question paper”

N. B.:-

1. Solve any four questions
2. Figures to the right indicate full marks.
3. Assume suitable data if necessary and state it clearly.
4. Use of non-programmable calculator is allowed.

- Q. 1. a) Draw System Network Architecture. Discuss Data Flow Control protocol in detail. (8M)
- Q. 1. b) Explain in detail path control and transmission control for IBM's System Network Architecture (SNA). (7M)
- Q. 2. a) Discuss in detail Kermit protocol. What are its limitations? (8M)
- Q. 2. b) Explain in detail time slot format for carrier reutilization in GSM network. (7M)
- Q. 3. a) Explain in detail how a device is connected to base station in GSM systems. (8M)
- Q. 3. b) Explain GSM multi-frame format. Explain the practical specifications for GSM systems used in India (7M)
- Q. 4. a) Explain ISDN user network interface configurations with suitable diagram. (8M)
- Q. 4. b) Explain narrow band ISDN systems. What is the present status of ISDN in India. (7M)
- Q. 5. a) What are the goals for network management? Explain the practical issues related to network management (8M)
- Q. 5. b) Describe CDMA downlink channel structure. State the limitations of Simple Network Management Protocol (SNMP) architecture. (7M)
- Q. 6. Write a note on following (15M)
- a) ISDN connection addressing
 - b) One bit and 3 – bit sliding window protocol