

Roll No.

22159

**M. E. 3rd Semester (ECE) (Elective-III)
Examination – December, 2014**

COMPUTER COMMUNICATIONS

Paper : MEEC-611

Time : Three Hours]

[Maximum Marks : 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Students have to attempt five questions in all out of eight questions. All questions carry equal marks.

1. What do you mean by data communication ? Discuss the difference between FDM, TDM and CDMA in detail. 20

2. Explain the architecture of OSI model. Also discuss its application in transmission. 20

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3. Define the concept of Network Protocols. Explain the IEEE standard for LAN. Also discuss the satellite networks. 20
4. Write short notes on : 20
- (i) Routing algorithms.
 - (ii) IP addressing schemes.
5. Discuss the various issues to design the transport and application layers. 20
6. Explain the following : 20
- (i) The Data Encryption Standard.
 - (ii) Authentication and digital signatures.
7. Explain the Pure Birth and Birth-death process in details. 20
8. Write short notes on : 20
- (i) Chains M/G/1 queue.
 - (ii) Burke's Theorem.