

2016

M.Sc.

4th Semester Examination

ELECTRONICS

PAPER—ELC-402

Full Marks : 50

Time : 2 hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

(Computer Networking)

Answer Q. No. 1 and any three from the rest.

1. (a) Define Bit stuffing.

(b) Find the class of the following IP address :

70.12.100.128

(Turn Over)

- (c) What is CSMA ?
- (d) What is the difference between parallel transmission & serial transmission ?
- (e) What is forward & reverse channel ?
2. (a) Draw the Sketch of TCP header format and explain wherever necessary.
- (b) What is the difference between UDP and TCP ?
- 6+4
3. (a) What are the differences between Switch and Router ?
- (b) What are the advantages of fiber optic communications ?
- (c) Write short note on ISDN. 3+3+4
4. (a) What do you mean by quantization used in PCM.
- (b) What are the different topologies used in data communication ?
- (c) What is FDDI ? What is CDDI ?
- (d) Write down differences between circuit switched network and packet switched network.
- 3+3+(1+1)+2

5. (a) Describe hand off in mobile communication system.
- (b) Define the following terms. Set up time, Blocked call, Holding timing and low Request Rate. 3+7
6. (a) Briefly explain the steps that a system follows for establishing a call from PSTN to a mobile.
- (b) What are the disadvantages of optical fiber as a transmission medium ?
- (c) State different type of error.

6+2+2

Internal Assessment — 10
