

2015

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) State the difference between BUS topology and star topology.

(b) State and explain Nyquist theorem.

(Turn Over)

- (c) What is single bit error and burst error ?
- (d) How IMEI number of your mobile helps in tracking your device ?
- (e) What do you mean by a leased line connection ?
2. (a) What is different types of protocols used in data link layer ? Briefly discuss one of them.
- (b) Why byte stuffing is used ?
- (c) What is the function of switch ?
- (d) Write down advantages of optical fibre.
- 4+2+2+2
3. (a) What is FDDI ?
- (b) What is quantization, used in PCM ?
- (c) Write short notes on ISDN. 2+3+5
4. (a) Briefly explain the architecture of mobile communication.
- (b) Describe, how mobile communication is operated in roaming. 5+5

5. (a) What is the difference between Packet switching and Message Switching?
- (b) What do you mean by Token? Briefly describe with proper diagram of Token ring access method.
- 4+(2+3)
6. (a) What is the difference between network layer delivery and transport layer delivery?
- (b) Is there any drawback of using piggy backing? Explain.
- (c) Why is IP called 'best-effort-delivery' protocol?
- 4+3+3

Internal Assessment — 10
