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

C/15/M.Sc./4th Seme./ELC-402  (Continued)
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

C/15/M.Sc./4th Seme./ELC-402 (Turn Over)