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PG/IVS/ELC-402/13

M.Sc. 4th Semester Examination, 2013

ELECTRONICS

(Computer Networking)

(Theory)

PAPER—ELC - 402

Full Marks : 50

Time : 2 hours

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

The figures in the right-hand margin indicate marks

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

Illustrate the answers wherever necessary

1. Answer all questions : 2 × 5

(a) What is HTML ?

(b) Describe Ring topology.

(Turn Over)

(2)

- (c) What do you mean by bit rate and baud rate ?
- (d) What is band width of data ?
- (e) What do you mean by acknowledged connectionless service ?
2. (a) State the difference between connection-oriented management system and connectionless management system.
- (b) Discuss briefly IEEE standard 802.3 with frame format. 4 + 6
3. (a) Discuss the differences between message switching and packet switching.
- (b) What are the various components required for data communication ?
- (c) Discuss various types of transmission media. 3 + 4 + 3
4. (a) State the difference between HTTP and FTP.

(3)

- (b) Explain briefly 1-bit sliding windows Protocol. 3 + 7
5. (a) Explain framing technique in detail.
- (b) What is cryptography? Explain the encryption model in detail. 6 + 4
6. (a) Discuss the functions of Network Layer in OSI model.
- (b) What are the differences between switch and Router?
- (c) What is the basic principles of Fiber optic communications? 4 + 3 + 3

[*Internal Assessment* : 10 Marks]
