

M.Sc.

2011

4th Semester Examination

ELECTRONICS

PAPER—EL-2202

Full Marks : 40

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.

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

1. Answer any five questions : 2×5
- (a) Discuss briefly characteristics of coaxial cable as physical media for communication.
 - (b) What is as ADSL modem ?
 - (c) What is the role of a Network interface card ?
 - (d) What do you mean by time division switching ?
 - (e) Discuss briefly the function of the Hub as a network device.
 - (f) Explain the structure of an IP (IPV4) address.

(Turn Over)

2. (a) Discuss the framing method briefly.
(b) What is CSMA/CD ?
(c) What do you mean by TCP/IP protocol? 6+2+2
3. (a) How many layers are in the ISO/OSI model? Write down the layers accordingly.
(b) Write down the activities of physical layer.
(c) Discuss Error-correcting codes. (1+2)+3+4
4. (a) What is RS-232-C? Write down the activity and characteristics of 9 pins of it.
(b) Discuss X.25 network system. 6+4
5. (a) What do you mean by Point-to-point network ?
(b) What do you mean by Service Primitives in networking system ?
(c) Write down the advantages of the network system.
3+4+3
6. (a) Write down the difference between connection-oriented and connection less management system.
(b) How many types of network are in use? Discuss briefly. 5+5
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