

Computer Science & Engineering 322711(22)

BE (7th Semester) Examination

APR-MAY, 2012

Branch: CSE

Subject: INTERNET & MULTIMEDIA TECHNOLOGY

Time allowed: Three Hours

Maximum Marks: 80

Minimum Marks: 28

Note: Part (a) of each question is compulsory. Attempt any two parts from (b), (c) & (d).

Q.1

(a) What is a loop back address? 2

(b) Explain IP-data gram format giving brief description about the following fields. Differentiated service/service type, flags, fragmentation offset, TTL, header check sum. 7

(c) Write about techniques of TCP, error & flow control. 7

(d) Write in detail about firewalls & basic types of firewall. 7

Q.2

(a) Write any two differences between B-ISDN & N-ISDN. 2

(b) Draw & explain ISDN protocol stack. Also write about ISDN focusing on ISDN principles. 7

(c) Explain the B, D & H channels that are used in ISDN. Also explain functional grouping reference points. 7

(d) Write about direct internet access system. 7

Q.3

(a) What is an adhoc network? 2

(b) Explain IEEE 802.11 architecture along with WLAN types. 7

(c) Explain hidden & exposed terminal problem related with MACOW protocol. 7

(d) Write about Bluetooth Protocol Stack. 7

Q.4

(a) What is Hyper text & Hyper media? 2

(b) Discuss JPEG compression & also explain features of JPEG 2000. 7

(c) Write about MP3 compression schemes. 7

(d) Explain MPEG-4 natural video compression. 7

Q.5

(a) What is MPEG and JPEG? 2

(b) Explain 1394 interface with the help of diagram. 7

(c) Explain video-on-demand systems. 7

(d) Explain characteristics of MMX instruction set. 7