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APR-MAY

B. E. (Eighth Semester) Examination, 2020

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(New Scheme)

(Specialization : CSE)

(CSE Engg. Branch)

INTERNET and MULTIMEDIA TECHNOLOGY

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : *Attempt all questions. Part (a) of each question is compulsory and carrying 2 marks each and attempt **two** parts from (b), (c) and (d) carrying 7 marks each.*

Unit-I

1. (a) Define Internet.   2

(b) What is class full addressing? Explain various classes of IPV4?   7

(c) Explain the functions of the ARP and RARP with frame format.   7

(d) Define firewall. Explain and classify different types of firewalls.   7

Unit-II

2. (a) Define PSTN.   2

(b) Explain functional grouping of ISDN. Describe various reference points.   7

(c) Define signaling system and explain layers of SS7.   7

(d) Explain DIAS architecture with example.   7

Unit-III

3. (a) Define piconet and scatternet.   2

(b) Explain IEEE 802.11 protocol. Compare Bluetooth Infrared and 802.11 WLAN.   7

(c) Define mobile IP. Expain direct and indirect routing using mobile IP.   7

(d) Explain the concept of LMDS/PCS WLL with block diagram. 7

Unit-IV

4. (a) Define hypertext and hyper media. 2

(b) Describe the operation of basic jpeg compression technique. 7

(c) Write the features of JPEG-2000 compare the current JPEG standard with JPEG 2000.

(d) Describe MP3 compression scheme. 7

Unit-V

5. (a) Define multimedia. 2

(b) Explain the architecture and benefits of IEEE 1394 interface. 7

(c) Expain the data types and instruction set of MMX technology. 7

(d) Explain the operational architecture of video on demand system. 7