

322847(22)**B. E. (Eighth Semester) Examination, 2020****APR-MAY****(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

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- (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. Explain direct and indirect routing using mobile IP. 7

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- (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) Explain the data types and instruction set of MMX technology. 7
- (d) Explain the operational architecture of video on demand system. 7