

Printed Pages – 3

Roll No. : .....

**322847(22)**

**B. E. (Eighth Semester) Examination, April-May 2021**

**(New Scheme)**

**(CSE Engg. Branch)**

**INTERNET and MULTIMEDIA TECHNOLOGY**

***Time Allowed : Three hours***

***Maximum Marks : 80***

***Minimum Pass Marks : 28***

***Note : Question (a) of each unit is compulsory and carry 2 marks each. Attempt any two part from questions (b), (c) and (d) carrying 7 marks each.***

**Unit-I**

1. (a) Explain ping and tracert commands.
- (b) Explain Transmission Control Protocol.

[ 2 ]

- (c) Write in detail about firewalls and basic type of firewall.
- (d) Write IP datagram format in brief. Discuss differentiated service/service type, flags and fragmentation offset.

### Unit-II

- 2. (a) How ISDN uses out of band signalling?
- (b) Write difference between B-ISDN and N-ISDN.
- (c) Explain working of data link layer and physical layer.
- (d) Draw and explain ISDN protocol stack. Also write down ISDN focussing on ISDN principle.

### Unit-III

- 3. (a) Define Piconet and Scatternet.
- (b) Explain hidden and exposed terminal problem related with MACO problem.
- (c) Write short note on signaling system number.
- (d) Explain LMDS.

[ 3 ]

### Unit-IV

- 4. (a) Explain the term hyper text and hyper media.
- (b) What do you mean by CODEC? Describe the steps of JPEG image compression.
- (c) Write down the difference between inter frame and intra frame compression.
- (d) Why compression is required? What is the difference between lossless and lossy compression technique?

### Unit-V

- 5. (a) Write two application of multimedia.
- (b) Discuss the different type of multimedia services in detail.
- (c) Explain the design of Video-on demand system.
- (d) Write short note on the following : (any two)
  - (i) MPEG 7
  - (ii) IEEE 1394 interface
  - (iii) MMX instruction set