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Roll No. :

C022534(022)

B. Tech. (Fifth Semester) Examination,

Nov.-Dec. 2021

(CSE Branch)

MULTIMEDIA & VIRTUAL REALITY

Time Allowed : Three hours

Maximum Marks : 100

Minimum Pass Marks : 35

Note : Attempt all questions. Part (a) of each question is compulsory and carries 4 marks. Attempt any two parts from (b), (c) and (d) & carrying 8 marks.

Unit-I

1. (a) Write the difference between ARP & RARP.
- (b) Write the details of class full addressing?
- (c) Explain the characteristics and layered architecture diagram of TCP/IP model.

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(d) Write the note on the application of Internet.

Unit-II

2. (a) What is DIAS? Explain the working of DIAS system with each component.
- (b) Describe the ATM reference model with diagram.
- (c) Draw and explain the ISDN networks also write about the principal and function of ISDN network.
- (d) Explain the different types of cable media.

Unit-III

3. (a) What are ultra wide band technology, explain the characteristics and advantages of UWT?
- (b) Explain the IEEE 802.11 architecture along with WLAN type.
- (c) What is Bluetooth? Explain the security issues related to Bluetooth.
- (d) Write short notes on following : (Attempt any **two**)
 - LMDS
 - Mobile IP

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- IPv6

Unit-IV

4. (a) What is Temporal media?
- (b) What is MPEG4? Explain the working of MPEG-4 encoder and decoder.
- (c) Write the feature, characteristics and advantages and compression steps of JPEG 2000?
- (d) Write short notes on following : (any **two**)
 - MP3 compression Scheme
 - Video Compression technique (mpeg1&2)
 - Hyper Text and Hyper Media

Unit-V

5. (a) What is MMX? Explain the word of multimedia and Multimedia PC Workstation Architecture.
- (b) Explain the multimedia data base design with the following terms : Content, Types and different areas.
- (c) Explain the term of MPEG-7?
- (d) Write short notes on following : (any **two**)

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PTO

- Image retrieval
- IEEE 1394 Interface
- VOD. (Video on Demand)