Roll No.:

## 322633(33)

## B. E. (Sixth Semester) Examination, 2020

(Old Scheme)

(CSE Engg. Branch)

## MULTIMEDIA & VIRTUAL REALITY

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks : 28

Note: Part (a) of each question is compulsory. Attempt any two parts from (b), (c) and (d) of each question. The figures in the righthand margin indicate marks.

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- 1. (a) Define Multimedia.
  - (b) What do you mean by data stream? Explain the data stream characteristics of continuous media.

|    | (c) | What are the components of multimedia system? In                                        |   |     |                                                         | Unit-IV                                                                                       |
|----|-----|-----------------------------------------------------------------------------------------|---|-----|---------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|    |     | what format are these data stored in a computer?                                        | 7 | 4.  | (a)                                                     | Explain optical media. Give examples for optical media.                                       |
|    | (d) | How are they linked with each other? Explain the                                        |   |     |                                                         |                                                                                               |
|    |     | evolution of multimedia products in detail.                                             | 7 |     | (b)                                                     | What do you understand by Compact Disk Digital Audio. What are the advantages of Compact Disk |
|    |     | Unit-II                                                                                 |   |     |                                                         | Digital Audio?                                                                                |
| 2. | (a) | Explain MIDI.                                                                           | 2 |     | (c)                                                     | How does magneto-optical technology differe from                                              |
|    | (b) | Write short notes on: (i) Speech Recongition System                                     | 7 |     | WORM technology? Explain in detail the working of WORM. |                                                                                               |
|    |     | (ii) Authoring Tools Authoring Tools                                                    |   |     | (d)                                                     | How are the errors handled in CD-DA system?                                                   |
|    | (c) | In what ways are video conferencing standards                                           |   |     |                                                         | Explain                                                                                       |
|    |     | different from audio conferencing standards?                                            | 7 |     | ,                                                       | Unit-V                                                                                        |
|    | (d) | What is an image? Explain the concept of image                                          |   | 5.  | (a)                                                     | What is the use of virtual reality?                                                           |
|    |     | processing.                                                                             | 7 |     | (b)                                                     | Write note on:                                                                                |
|    |     | tions i Entr for or sold specified in confunda-                                         |   |     | ( )                                                     | (i) Augmented Reality System                                                                  |
|    |     | Unit-III                                                                                |   |     | (ii) Applications of VR                                 |                                                                                               |
| 3. |     | Define hybrid coding.                                                                   | 2 |     | (c)                                                     | Discuss about the following statement:                                                        |
|    | (b) | Explain Static and Dynamic Huffman coding techniques with the help of suitable example. |   |     | "Virtual Reality environments are made up of            |                                                                                               |
|    |     |                                                                                         | 7 |     | graphics, video, sound and a variety of other physical  |                                                                                               |
|    | (c) | Explain the steps involved in JPEG comperession                                         |   |     | (d)                                                     | simulation."                                                                                  |
|    |     | with diagram.                                                                           | 7 |     |                                                         | Explain some of the domain dependent applications                                             |
|    | (d) | Explain different types of viedo compression.                                           | 7 |     |                                                         | in visualization.                                                                             |
|    |     | 322633(33)                                                                              |   | 70] |                                                         | 322633(33)                                                                                    |