

**333673(33)**

**B. E. (Sixth Semester) Examination, April-May 2020**

**(New Scheme)**

**(IT Engg. Branch)**

**MULTIMEDIA & VIRTUAL REALITY**

**(Professional Elective-I)**

***Time Allowed : Three hours***

***Maximum Marks : 80***

***Minimum Pass Marks : 28***

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

**Unit-I**

1. (a) What is Multimedia?
- (b) Explain data stream characteristics of continuous media.

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- (c) Explain the Software & Hardware requirement in multimedia.
- (d) What do you mean by multimedia application? Explain any one multimedia application in detail.

### Unit-II

- 2. (a) What is conventional system?
- (b) Explain the basic concept of video & animation in terms of multimedia?
- (c) What is animation? Explain the concept of Computer-based animation.
- (d) What is image processing? Explain the advantage of image processing.

### Unit-III

- 3. (a) What is JPEG & MPEG?
- (b) Explain text compression using static Huffman technique with the help of example.
- (c) What is hybrid coding? Explain statistical coding techniques in detail.
- (d) What is entropy? Explain dynamic Huffman technique in detail.

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### Unit-IV

- 4. (a) What is Compact Disk digital audio?
- (b) What is CD-ROM? Explain CD-ROM based development in detail?
- (c) What is CD-DA? Explain frames of CD-DA. Also explain advantages of CD-DA.
- (d) Explain the principle of CDWO.

### Unit-V

- 5. (a) What is Virtual Reality System?
- (b) Explain the visualisation visibility computation time critical rendering system in detail.
- (c) Explain virtual reality in the medical field.
- (d) Explain Augmented reality system.