

322673(33)

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

(New Scheme)

(CSE Branch)

(Professional Elective-I)

MULTIMEDIA and VIRTUAL REALITY

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : Attempt all questions. Part (a) is compulsory of each unit. Attempt any two parts from (b), (c) & (d) of each unit.

Unit-I

1. (a) Define Multimedia. 2
- (b) Explain the concept of temporal media. 7

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- (c) What are the applications of multimedia? Explain. 7
- (d) What do you mean by image recognition? How can an image be recognised? 7

Unit-II

2. (a) What is the basic difference between lossless & lossy compression? 2
- (b) Define the term MIDI. Explain two different components of a MIDI interface. 7
- (c) Explain the basic concepts of video & animation. 7
- (d) What is Authoring System? Explain various authoring tools. 7

Unit-III

3. (a) Define USB. 2
- (b) Explain the various features of JPEG-2000. Also explain how it differ from JPEG. 7
- (c) Explain static Huffmann encoding and dynamic Huffmann encoding technique. 7

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- (d) Explain MPEG-1 compression scheme. 7

Unit-IV

4. (a) What is Optical Media? 2
- (b) Write advantages of CD-DA technology. 7
- (c) How data is stored in WORMS? 7
- (d) Explain the principles of CDWO. 7

Unit-V

5. (a) What is Virtual Reality? 2
- (b) Explain the importance of VRML programming in virtual reality. 7
- (c) Explain augmented reality system. 7
- (d) Write short notes on : (any two) 7
- (i) Data Globes
- (ii) Holographic Display
- (iii) Head Mounted Display