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**B. E. (Sixth Semester) Examination,**

**April-May 2020**

**(Old Scheme)**

**(IT Branch)**

**ELECTIVE-I : MULTIMEDIA and VIRTUAL  
REALITY**

**Time Allowed : Three hours**

**Maximum Marks : 80**

**Minimum Pass Marks : 28**

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

**Unit-I**

1. (a) What is Temporal Media?

2

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- (b) Write down the difference between Hypertext & Hypermedia? 7
- (c) Explain the basic characteristics of Temporal media in detail. 7
- (d) Explain basic concept of Authoring system in detail with diagram. 7

**Unit-II**

2. (a) What is Graphical objects? 2
- (b) Explain MPEG-4 Natural video compression in detail. 7
- (c) Explain the basic features of JPEG2000 in detail. 7
- (d) Explain the MP3 compression scheme in detail. 7

**Unit-III**

3. (a) What is IEEE 1394 interface? 2
- (b) Explain the characteristics of MMX instruction set in detail? 7
- (c) Explain the architecture of multimedia PC/work station in detail? 7

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- (d) Explain the Resource scheduling with real-time considerations in detail? 7

**Unit-IV**

4. (a) What is MPEG-7? 2
- (b) Explain the concept of content based information retrieval in detail? 7
- (c) Explain the design of video-on-demand system in detail. 7
- (d) Explain the Architecture of Multimedia Database Design in detail? 7

**Unit-V**

5. (a) What is Virtual Reality? 2
- (b) Explain the domain dependent application in detail. 7
- (c) Explain the augmented reality system interface to the virtual world input system in detail. 7
- (d) Write a short notes on : (any two) 7

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PTO

- (i) Head mounted display
- (ii) Auto-stereoscopic display
- (iii) Holographic display