

333748(33)

B. E. (Seventh Semester) Examination,

April-May, 2020/NOV-DEC 2020

(New Scheme)

(IT Engg. Branch)

MULTIMEDIA and COMMUNICATION

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

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

Unit-I

1. (a) What is Multimedia?
(b) Compare Non-Temporal & Temporal Media.

[2]

- (c) Write notes upon Hypertext and Hypermedia.
- (d) What is Authoring systems? Explain in detail.

Unit-II

- 2. (a) What is Compression?
- (b) Explain in detail the Image Compression Techniques.
- (c) Compare the compression techniques implemented for MPEG-1, MPEG-2 and MPEG-4 video compression.
- (d) How the compression of Synthetic Graphical objects is implemented? Explain.

Unit-III

- 3. (a) What the MMX instruction set.
- (b) How does the operating system provide support for multimedia data in terms of Resource scheduling and Recal time considerations.
- (c) Write down the difference between USB port and IEEE 1349 interface.

[3]

- (d) Describe the multimedia PC/workstation Architecture in detail.

Unit-IV

- 4. (a) What is CBIR.
- (b) Write the characteristics of multimedia database system. Also explain MMDBMS with its architecture.
- (c) How content based information Retrieval is applied to Video Retrieval Applications.
- (d) Describe the Architecture of Video on Demand systems along with its features.

Unit-V

- 5. (a) What is VR?
- (b) How Input and Output devices are used in Virtual Reality Applications.
- (c) What is VRML programming in virtual reality.
- (d) Write short notes upon Augumented Reality.