

Exam. Code : 303502

Subject Code : 5012

PGDCA Semester-II

PAPER-IV(iii): MULTIMEDIA SYSTEM

Time Allowed- 5 Hours]

[Maximum Marks—50

**Note:—** Attempt any five questions. All questions carry equal marks.

1. What are components of multimedia ? Explain various components of multimedia with example of each.
2. Give the detailed comparisons of Image File Formats- JPG, TIFF, PNG, and GIF. Which are the major considerations to choose the necessary image file type ?
3. (a) Discuss various multimedia authoring tools.  
(b) What problems does a multimedia system have to deal with when handling multimedia data ?
4. (a) Define the terms static and dynamic media ? Give two examples of each type of media.  
(b) What are the basic characteristics of multimedia database management systems ? Discuss.
5. Define multimedia and multimedia system. Explain the characteristics and uses of Multimedia.

6. Discuss interactive video-audio and video-on-demand system in details.
7. Discuss the following with suitable diagrams/examples in context to digital audio :
  - (a) Sampling Rate
  - (b) Sampling Resolution
  - (c) Bit Rate
  - (d) Quantization Error
  - (e) Signal-to-Noise Ratio
8.
  - (a) What are the key distinctions between multimedia data and more conventional types of media ?
  - (b) Specify the hardware and software requirements for multimedia PC.