GSQ/D-22   **1178**

MULTIMEDIA TOOLS

Paper : BCA-356

Time : Three Hours]   [Maximum Marks : 80

Note : Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. **1** is compulsory. All questions carry equal marks.

(Compulsory Question)

1. (a)   What is MPEG standard ?

   (b)   What is NTSC ?

   (c)   What do you mean by Raster Image ?

   (d)   What is DPCM ?

   (e)   What is HDTV standard ?

   (f)   What do you understand by video compression ?

   (g)   What is compression ratio ?

   (h)   What is digital audio ?   8×2=16

Unit I

2.   What is Multimedia ? Discuss various multimedia software tools.   16

3. Write short notes on the following : 16

   (a) Multimedia authoring tools

   (b) History of VRML

Unit II

4. Explain the following digital video standards : 16

   (a) Chroma subsampling

   (b) CCIR standards

5. What do you mean by a data type ? Explain various graphics/image data types. 16

Unit III

6. What is a digital audio ? Differentiate between analog and digtial audio. 16

7. What do you mean by coding of audio ? Explain pulse code modulation in detail. 16

Unit IV

8. What do you understand by data compression ? Differentiate between run-length coding and variable length coding. 16

9. Differentiate between the following : 16

   (a) MPEG-1 and H.261

   (b) MPEG-1 and MPEG2