Roll No. ....

GSQ/D-24

1073

MULTIMEDIA TOOLS
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 are the hardware and software requirements for a multimedia system ?

   (b) Give a brief introduction of MIDI.

   (c) What are the various types of video signals ?

   (d) What is JPEG mode ? What are the various JPEG modes ? 4×4=16

Unit I

2. What are multimedia authoring tools and its features ? Explain the various types of Authoring tools with examples. 16

P.T.O

3. Explain the following :

    (a)   Components of multimedia

    (b)   Presentation tools

    (c)   Hypertext and Hypermedia

    (d)   Applications Areas of multimedia.

$4 \times 4 = 16$

Unit II

4. What do you understand by analog video standard ? Explain the various analog video standards.

16

5.   (a)   Explain the following :

        (i)   RGB color model

        (ii)   CMY color model.

8

    (b)   Explain the various popular file formats available.

8

Unit III

6.   (a)   What is analog audio ? What is the process of digitization of sound ?

8

    (b)   Differentiate between analog audio and digital audio. Which one is better and why ?

8

7. Explain the following :

    (a)   Lossless predictive coding

    (b)   DM.

8

8

Unit IV

8. Explain the following video compression techniques :
   - (a) H.261
   - (b) H.263.

   8

   8

9. Explain the various lossless image compression techniques with examples.

   16