16131(J) —June-16

B. Tech 6th Semester Examination

Multimedia Technology (NS)

IT-324

Time : 3 Hours   Max. Marks : 100

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt five questions in all, selecting one question from each section A, B, C & D and all subparts of section E.

SECTION - A

1. Define Multimedia and its standards. Give Classification of multimedia. Discuss various application of multimedia.   (20)

2. Discuss about architecture sound cards with its diagram: Also discuss MIDI interface and related protocols.   (20)

SECTION - B

3. What are image and its formats? Explain about JPEG and its objective and architecture in detail.   (20)

4. What do you mean by animation and its principles? Discuss various special features and tool used for animations.   (20)

SECTION - C

5. What is the need of data compression? Explain basic compression techniques with their pros and cons.   (20)

6. What is multimedia documents and its standards? Explain about open document architecture.   (20)

[P.T.O.]

SECTION - D

7. How time dependencies are dealt with multimedia? Describe about concept of synchronization. Also discuss Inter-object and Intra object synchronization.   (20)

8. Discuss process of multimedia application developments with its all steps in details. Also discuss content analysis with help of suitable example.   (20)

SECTION - E

9. (a)   Define multimedia.

   (b)   Differentiate between CD-ROM and CD-R/W

   (c)   Differentiate between lossy and lossless compression.

   (d)   Differentiate between GIFF and TIFF image format.

   (e)   What is sub-band coding?

   (f)   What is MIDI?

   (g)   Mention some applications of VR.

   (h)   Define aliasing.

   (i)   Define morphing.

   (j)   Differentiate between BMP and PNG image format.
                                                          (10×2=20)