15222

B. Tech 6th Semester Examination

Multimedia Technologies (OS)

IT(ID)-6004

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 each from section A, B, C, and D. Section E is compulsory.

SECTION - A

1. What is meant by the terms Multimedia and Hypermedia? Distinguish between these two concepts. Explain five applications of multimedia technology in an office.   (20)

2. What are the main facilities that must be provided in a system designed to support the integration of multimedia into a multimedia presentation?   (20)

SECTION - B

3. Describe various digital image representation and formats.   (20)

4. Elaborate animation principles. Discuss various animation tools and compare them for special visual effects.   (20)

SECTION - C

5. What is data compression? Compare and contrast MPEG-I and MPEG-II   (20)

[P.T.O.]

6. Describe Open Document Architecture in multimedia. Discuss its market relevance as on today. What other standards are used for document interoperability?   (20)

SECTION - D

7. Explain how temporal dependence is implemented in Multimedia presentation.   (20)

8. Discuss the features of a Multimedia Authoring tool. Name any two popular multimedia authoring tools and mention their special features.   (20)

SECTION - E

9. Define the following term/phrase, giving an advantage of it:

   (a)   Browser.

   (b)   Psycho Acoustics.

   (c)   Digital still camera.

   (d)   IDTV.

   (e)   DPCM.

   (f)   MHEG.

   (g)   Inter object synchronization.

   (h)   Copyright.

   (i)   Frame grabber.

   (j)   Sampling.   (2×10=20)