Total No. of Questions : 10]　　　[Total No. of Printed Pages : 4

(2043)

B.C.A. (CBCS) RUSA VIth Semester Examination

4217

MULTIMEDIA TECHNOLOGY

Paper : BCA-0603

Time : 3 Hours]　　　　　　　　　[Maximum Marks : 70

Note :– The question paper contains *five* Parts. All questions in Part–A are compulsory. Parts B, C, D and E each has two questions. Attempt *one* question each from each of the four Parts.

Part–A

(Compulsory Question)

1. Fill in the blanks :

　(i)　The full form of .RTF file extension is ....

　(ii)　HTML stands for ....

　(iii)　MP3 is an example of .... file format.

(iv) The full form of HMD is ....

(v) DIB, EPS are examples of .... file format.

(vi) .... video has replaced analog video as the method of choice for making and delivering video for multimedia.

(vii) .... is a piece of dedicated hardware designed and used rapidly for three-dimensional computer graphics.

(viii) Scanner falls under the .... device category.

(ix) .... is a type of file capable of holding both loosy jpeg compression and loseless image data.

(x) .... uses digital optical components to register the intensity of color of light and convert it into pixel data to take photos. 1×10=10

2. Short Answer Type Questions (25 to 50 words).

(i) What do you understand by various attributes of Image ?

(ii) Why is data compression necessary for multimedia activities ? Explain.

(iii) What do you understand by data redundancy ?

(iv) What is the importance of Graphics in multimedia ? Explain.

(v) What are software tools for animation ? Explain with the help of examples. 4×5=20

Part–B 10×1=10

3. Explain the reasons behind popularity of multimedia nowadays. Also explain the applications of multimedia in education.

4. Explain, how multimedia can be incorporated in PowerPoint ? Write down important points to be considered while incorporating multimedia in PowerPoint.

Part–C 10×1=10

5. What do you understand by Sound Channels ? Also explain what is MIDI in detail.

6. Discuss WAV and MP3 audio file format in detail.

7. What do you understand by Graphics ? Differentiate between Vector and Raster Graphics.

8. Explain the various attributes of image :

   (i)   Image size

   (ii)   Color depth

   (iii) File size

   (iv)   Resolution

Part–E 10×1=10

9. What is MPEG ? Explain the need of video compression.

10. What are videodisks and video capture cards ? Also write usefulness of these.