

[This question paper contains 4 printed pages.]

Sr. No. of Question Paper : 1858

E

Your Roll No.....

Unique Paper Code : 234663

Name of the Course : B.Sc. Programme

Name of the Paper : Multimedia Systems and Applications (CSCT-602)

Semester : VI

Duration : 3 Hours

Maximum Marks : 75

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Section A is of 25 marks and is compulsory.
3. Attempt any five questions from Section B.

SECTION – A

1. (a) Fill in the blanks : (5)
 - (i) PDA stands for _____ .
 - (ii) The picture elements that make up a bitmap are called _____ .
 - (iii) _____ files can be easily embedded in web pages as compared to digital equivalents.
 - (iv) The text is called _____ when powerful processing capabilities can be applied to make the text more accessible and meaningful.
 - (v) Branch of physics that studies sound is _____ .
- (b) Explain the functioning of a scanner. (2)

P.T.O.

- (c) What is sampling rate ? How it is measured ? (2)
- (d) Discuss any 3 Image file formats. (5)
- (e) Explain any 5 features of Text Editing & Word Processing tools. (5)
- (f) Write full form of the following :
 - (i) GUI
 - (ii) AIFF
 - (iii) MPEG
 - (iv) OCR
 - (v) HTML
 - (vi) PNG (6)

SECTION – B

- 2. (a) (i) Differentiate between Subtractive Color and Additive Color. (3)
 - (ii) What is the use of Bitmaps ? (1)
 - (b) Explain the following terms :
 - (i) Panoramas
 - (ii) Virtual Reality
 - (iii) Bar-code Reader (6)
3. (a) Distinguish between :
- (i) Image and graphics

(ii) Video and animation

(iii) CRT and LCD projectors

(iv) Codec and MPEG (10)

4. (a) Mention the four different CD standards and explain any one of them. (6)
- (b) Differentiate between RGB and CMYK color models. (4)
5. (a) What are the basic components of an audio system ? Describe their functions. (6)
- (b) What is the general MIDI specification and what is its utility ? (4)
6. (a) Distinguish between component and composite video signal formats. (4)
- (b) Differentiate between raster and vector graphics. (4)
- (c) Specify the hardware requisition (four) for multimedia playback. (2)
7. (a) Explain any four disadvantages of MIDI. (4)
- (b) Explain any four memory storage devices used in multimedia systems. (4)
- (c) On which format MP4 format is based ? Explain MP4. (2)
8. (a) Digital audio is said to be device independent. WHY ? (3)

- (b) Integrated multimedia is the “weaving” part of the multimedia definition. Justify. (3)
- (c) Explain any four methods for searching words in hypermedia systems. (4)