MULTIMEDIA SYSTEMS AND
TECHNOLOGY

Full Marks – 70

Time – Three hours

The figures in the margin indicate full marks
for the questions.

Illustrate your answers with suitable sketches and
examples wherever necessary.

PART – A
All questions are mandatory.

1. Fill up the gaps :　　　　　　　　　　5×2=10

   (a) The two human senses required to experience
   multimedia properly are sense of _____
   and sense of _____.

   (b) In Text, a capital letter is called _____
   and a small letter is called _____.

[Turn over

(c) Tertiary colours are created by combining _____ and _____ colours.

(d) The human ear can hear sounds in the range _____ to _____ .

(e) SECAM standard is used in _____ and _____ .

$5 \times 1 = 5$

(f) Compiler is a tool found in a _____ software.

(g) Icons used to express moods are called _____ .

(h) Tints are created by adding _____ to a particular colour or hue.

(i) The process of removing blank space from the beginning and ending of an audio recording during editing is called _____ .

(j) Luma or Luminosity represents the _____ of an image.

2. Choose the correct answer from the following questions :   1×10=10

(A) Which among the following is not a multimedia component ?

    (i) Graphics   (ii) Workstations

    (iii) Processor   (iv) Windows 10

(B) What is the shortcut key combination for merging layers in Adobe Photoshop ?

    (i) Ctrl+T   (ii) Ctrl+D

    (iii) Ctrl+C   (iv) Ctrl+E

(C) Which Colour System is used in the broadcasting of programs on the Television ?

    (i) CMYK   (ii) RGB

    (iii) HSB   (iv) YUV

(D) Which among these data compression algorithms is lossless ?

    (i) JPEG   (ii) Huffman Algorithm

    (iii) MPEG   (iv) MP3

(E) Which among these are not a part of text in multimedia ?

(i) Symbols   (ii) Icons

(iii) Poster   (iv) Buttons

(F) Which among the following is a browser ?

(i) Windows 10   (ii) Adobe Flash

(iii) Safari   (iv) Google

(G) Web pages are coded using :

(i) Unicode   (ii) ASCII

(iii) FTP   (iv) HTML

(H) The full form of DVD is :

(i) Digital Video Disc

(ii) Digital Versatile Disc

(iii) Digital Virtual Disc

(iv) Digital Viewable Disc

(I) Which image file type is best for creating logos ?

(i) Bitmap

(ii) Encapsulated Post Script

(iii) Vector

(iv) Shockwave

(J) Which of the following is not a stage for multimedia production ?

(i) Planning and Costing

(ii) Designing and Producing

(iii) Marketing

(iv) Delivering.

PART – B

Answer any *three* questions.

3. (a) Define Text. What is its significance in the field of multimedia ?   2+3=5

(b) Write briefly about the font styles and orientations of documents.   2+4=6

(c) What is the ASCII character set ?   4

4. (a) What is resolution ? What are the different types of resolution. 2+3=5

(b) Describe the HSB Colour System. 5

(c) Write a brief note on colour inkjet printer. 5

5. (a) What is acoustics ? What do you understand by musical sound and noise ? 2+8=10

(b) Describe the composition of a MIDI file with diagrams. 5

6. (a) What are the different types of television broadcast standards ? Describe them. 10

(b) What are the different types of Virtual Reality Systems ? 5

7. (a) What do you understand by prototype development and why is it required ? 5

(b) Describe the role of a project manager. 5

(c) Why is it necessary to test a multimedia project ? 5