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030853B/030854B

**3rd Sem. / Computer Engineering**

**Subject : Multimedia Applications**

Time : 3 Hrs.

M.M. : 100

**SECTION-A**

**Note:** Objectives questions. All questions are compulsory (10x1=10)

**(Course Outcome/CO)**

- Q.1 DVI stands for \_\_\_\_\_. (CO-2)
- Q.2 The full form of MPEG is \_\_\_\_\_. (CO-2)
- Q.3 What is AVI Format? (CO-1)
- Q.4 PNG stands for \_\_\_\_\_. (CO-1)
- Q.5 Define KIOSK. (CO-1)
- Q.6 Explain Channel. (CO-3)
- Q.7 Source coding compresses the data to increase size of file. (T/F) (CO-2)
- Q.8 JPEG stands for \_\_\_\_\_. (CO-2)

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Q.9 Name types of Tween. (CO-4)

Q.10 \_\_\_\_\_ filter makes the image look as if it was sponged. (CO-3)

**SECTION-B**

**Note:** Very Short answer type questions. Attempt any ten parts 10x2=20

- Q.11 What are Authoring Tools? (CO-4)
- Q.12 Define Resolution. (CO-4)
- Q.13 List steps to record an action in Photoshop. (CO-3)
- Q.14 How to remove layers in Photoshop? (CO-3)
- Q.15 Name any four multimedia devices. (CO-1)
- Q.16 What is Audio Compression? (CO-2)
- Q.17 What is an image Editor? (CO-2)
- Q.18 Define Multimedia. (CO-1)
- Q.19 Define Animation. (CO-4)
- Q.20 What is uses and problems of Multimedia? (CO-1)

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Q.21 What are the various formats of digital Audio?  
(CO-2)

Q.22 Differentiate between Barcode and QR Code.  
(CO-2)

### SECTION-C

**Note:** Short answer type questions. Attempt any eight questions. 8x5=40

Q.23 Differentiate between Image and Image Editor.  
(CO-2)

Q.24 Differentiate between lossy and lossless Compression.  
(CO2)

Q.25 Write the use of Codes in Multimedia. (CO-2)

Q.26 What are the elements of Multimedia System?  
(CO-1)

Q.27 What are the communications devices in Multimedia?  
(CO-1)

Q.28 Explain the Air Brush Tool and Paint Brush Tool in Photoshop.  
(CO-3)

Q.29 Explain the color modes in Photoshop in brief?  
(CO-3)

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Q.30 Explain the various types of layers in Flash.  
(CO-4)

Q.31 Differentiate between Hyper-text and Hyper-graphics.  
(CO-1)

Q.32 Explain Encoding Techniques. (CO-2)

### SECTION-D

**Note:** Long answer type questions. Attempt any three questions. 3x10=30

Q.33 Explain the Concept of Multimedia and its history? Enumerate the different applications of Multimedia?  
(CO-1)

Q.34 Discuss the Software and Hardware Requirement of Multimedia Projects? (CO-1)

Q.35 What do you mean by Data Compression? Explain various data compression types and techniques of Multimedia Project? (CO-2)

Q.36 Write short notes on :-

(1) Tweening (CO-4)

(2) Animating (CO-4)

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**SECTION-A**

**Note:** Objective type questions. All questions are compulsory (10x1=10)

(Course Outcome/CO)

- Q.1 MP3 is an extension of a \_\_\_\_\_ file. (CO-2)
- Q.2 FPS stands for \_\_\_\_\_. (CO-2)
- Q.3 What is Webcam. (CO-1)
- Q.4 The full form of GIF is \_\_\_\_\_. (CO-2)
- Q.5 The \_\_\_\_\_ tool of Flash allows you to make freehand selection on the stage. (CO-4)
- Q.6 Give the names of elements of Multimedia. (CO-1)
- Q.7 Define compression ratio. (CO-4)

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- Q.8 WMA stands for \_\_\_\_\_. (CO-2)
- Q.9 \_\_\_\_\_ tools is used to reduce the focus of an image. (CO-3)
- Q.10 What is Layer? (CO-4)

**SECTION-B**

**Note:** Very Short answer type questions. Attempt any ten parts 10x2=20

- Q.11 Write short note on JPEG and MPEG. (CO-1)
- Q.12 Explain Dodge tool. (CO-3)
- Q.13 Write short note on MIDI. (CO-1)
- Q.14 What are the steps for planning a project in Multimedia? (CO-2)
- Q.15 Define Resolution? (CO-4)
- Q.16 Name some of the image formats used in Multimedia. (CO-1)
- Q.17 What is KIOSK? (CO-1)
- Q.18 List various tools in Photoshop? (CO-3)
- Q.19 Write short notes on layers in Flash. (CO-4)

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- Q.20 What do you mean by cropping? (CO-3)  
Q.21 What are Actions in Photoshop? (CO-3)  
Q.22 Define Time-line. (CO-4)

### SECTION-C

**Note:** Short answer type questions. Attempt any five questions out of ten. 5x8=40

- Q.23 Difference between Lossless and Lossy Compression. (CO-2)  
Q.24 What are the different file formats of Media Files? (CO-1)  
Q.25 Differentiate between Hyper-Text and Hyper-graphics. (CO-1)  
Q.26 Define channels in Photoshop. Also explain types of Channel in brief. (CO-3)  
Q.27 What are the various modes to adjust colours in Photoshop? (CO-3)  
Q.28 Explain Encoding Techniques. (CO-2)  
Q.29 Define Tweening and its various types? (CO-4)  
Q.30 Explain QR Codes in brief. (CO-2)

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- Q.31 Mention the major uses problems of Multimedia? (CO-1)  
Q.32 Explain various layers of time line available in Flash? (CO-4)

### SECTION-D

**Note:** Long answer type questions. Attempt any three questions. 2 x 5 = 10 3x10=30

- Q.33 Define Multimedia? Write Benefits and problems of Multimedia? Also explain the various applications of Multimedia?(CO-1)  
Q.34 Explain Filters in Photoshop. Also explain why filters are important in Photoshop. (CO-3)  
Q.35 Explain various authorizing tools in Flash? Also define the features of flash? (CO-4)  
Q.36 Write short note on :-  
1) data compression (CO-2)  
2) Animating (CO-4)

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**SECTION-A**

**Note:** Multiple choice Questions. All questions are compulsory (10x1=10)

**(Course Outcome/CO)**

Q.1 Which of the following cannot produce colored output? (CO-1)

- a) dot matrix printer    b) inkjet
- c) laser printer        d) plotter

Q.2 Which offers flicker free views? (CO-1)

- a) Monitor                b) LCD Monitor
- c) CRT Monitor        d) TV

Q.3 Which of the following offer higher data density? (CO-1)

- a) hard disk              b) DVD
- c) Floppy                d) CD

Q.4 GIF images are limited to max. how many colors? (CO-2)

- a) 128                      b) 256
- c) 512                     d) 1024

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Q.5 TIFF file support how many colors? (CO-8)

- a) 12 bit                      b) 24 bit
- c) 50 bit                     d) none

Q.6 Which is the default extension of sound files in Windows? (CO-2)

- a) AVI                        b) MP3
- c) WAV                      d) API

Q.7 Which of the following tools does not use the foreground color? (CO-3)

- a) airbrush                b) brush
- c) eraser                    d) pencil

Q.8 Who is the developer of Flash? (CO-3)

- a) Microsoft                b) IBM
- c) Macromedia            d) Adobe

Q.9 Who is the developer of Photoshop? (CO-3)

- a) Microsoft                b) IBM
- c) Macromedia            d) Adobe

Q.10 How many frames are there in a movie file when it is created? (CO-4)

- a) 12                          b) 3
- c) 7                            d) 1

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## SECTION-B

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Human eye can detect changes that are occurring less than \_\_\_\_\_ events/sec (CO-1)
- Q.12 USB stands for \_\_\_\_\_. (CO-1)
- Q.13 DVD stands for \_\_\_\_\_. (CO-1)
- Q.14 \_\_\_\_\_ CD can be written many times. (CO-1)
- Q.15 Diethering \_\_\_\_\_ the size of a file. (CO-2)
- Q.16 MIDI stands for \_\_\_\_\_. (CO-2)
- Q.17 The grayscale mode uses \_\_\_\_\_ shades of gray. (CO-3)
- Q.18 Name CMYK color \_\_\_\_\_. (CO-3)
- Q.19 Flash is developed by \_\_\_\_\_. (CO-4)
- Q.20 The \_\_\_\_\_ tools of flash allows you to make freehand or straight edged selection on the stage (CO-4)

## SECTION-C

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Explain kiosks and animation with appropriate example. (CO-1)
- Q.22 Write in detail audio compression. (CO-1)
- Q.23 Discuss animation techniques? (CO-1)
- Q.24 Explain multimedia hardware and software components (CO-1)

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- Q.25 Discuss the purpose of project planning?(CO-2)
- Q.26 Discuss MPEG format? (CO-2)
- Q.27 Write various color models? (CO-2)
- Q.28 Explain smudge tool and focus tool. (CO-3)
- Q.29 Explain the concept of layers in detail. (CO-3)
- Q.30 Explain filters in adobe photoshop. write any three filters. (CO-3)
- Q.31 Discuss painting and drawing tools. (CO-3)
- Q.32 Discuss Animation by Tweening (CO-4)
- Q.33 Explain Barcode and QR Code (CO-1)
- Q.34 Explain painting and drawing tools in flash (CO-4)
- Q.35 Discuss Frame by Frame animation (CO-4)

## SECTION-D

**Note:** Long answer type questions. Attempt any two out of three questions. (2x10=20)

- Q.36 a) Explain multimedia computer with hardware and software (CO-1)
- b) Explain various sound and video formats used in multimedia system?
- Q.37 Explain different Layers of Adobe Photoshop? (CO-3)
- Q.38 Explain Macromedia Flash Interface? (CO-4)

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**Subject : Multimedia Applications**

M.M. : 100

Time : 3 Hrs.

### SECTION-A

**Note:** Multiple choice questions. All questions are compulsory (10x1=10)

Q.1 The storage device which offers highest data density? (CO-2)

- a) Hard Disk ✓ b) CD  
c) DVD d) Floppy

Q.2 Default extension of Photoshop image file is (CO-4) ✓

- .....  
a) PSD b) PSP  
c) PVD d) PHP

Q.3 ✓ The characteristic of a multimedia system is (CO-1)

- .....  
a) High Storage  
b) ✓ High Data Rates & High Storage  
c) High Data Rates d) None of these

Q.4 \_\_\_\_\_ is an extension of a video file (CO-2)

- a) MP3 b) MP4 ✓  
c) M3U d) MIDI

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Q.5 How many colors does the GIF format support? (CO-3)

- a) 128 b) 16  
c) 32 d) 256

Q.6 The area on which the images are placed is called (CO-4)

- a) Canvas b) Paint Box ✓  
c) Bucket d) None of these

Q.7 C in CMYK model is used for (CO-3)

- a) Cyan b) White ✓  
c) Yellow d) Blue

Q.8 Photoshop is developed by ..... (CO-4)

- a) IBM b) Apple  
c) Microsoft d) Adobe ✓

Q.9 A video consists of sequence of (CO-5)

- a) Frames b) Packets  
c) Signals d) Slots

Q.10 The extension of an exported flash movie is (CO-5)

- a) JPG b) FLA ✓  
c) SWF d) EXP

### SECTION-B

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

Q.11 PNG stands for ..... (CO-3)

Q.12 Name any two-images editing software. (CO-4)

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- Q.13 GUI full form is ..... (CO-2)  
 Q.14 MPEG is an audio file format. (True / False) (CO-2)  
 Q.15 Compression reduces the size of a file. (True / False) (CO-6)  
 Q.16 The shortcut key for deselecting a selection in Photoshop is (CO-4)  
 Q.17 Flash is a simple authoring tool that facilitates the creation of interactive movies (True / False) (CO-5)  
 Q.18 SWF stands for ..... (CO-5)  
 Q.19 Name any two video editing software. (CO-6)  
 Q.20 Dithering (increases/reduces) the size of an image file. (CO-3)

### SECTION-C

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions.  
 (12x5=60)

- Q.21 Differentiate between Printer and Plotter. (CO-2)  
 Q.22 Define the following : (CO-1)  
 (i) Hypertext (ii) Hypermedia  
 Q.23 Describe various special input devices required by a multimedia PC. (CO-2)  
 Q.24 Explain different types of user-interface. (CO-3)  
 Q.25 Explain any three objectives of project planning. (CO-2)

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- Q.26 Give any three advantages of digital music. (CO-6)  
 Q.27 Define compression. Explain the various types of compression. (CO-6)  
 Q.28 Explain MPEG format in brief. (CO-5)  
 Q.29 Define cropping. Explain the various steps to crop an image. (CO-4)  
 Q.30 Differentiate between vector graphics and raster graphics. (CO-3)  
 Q.31 Write any five important features of Photoshop. (CO-4)  
 Q.32 Explain the main parts of a Flash Window. (CO-5)  
 Q.33 Write the steps to transform an image in Adobe Flash. (CO-4)  
 Q.34 Explain the use of authoring tool. (CO-5)  
 Q.35 Define frame rate. How will you change it? (CO-2)

### SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Explain the applications of Multimedia in any five fields. (CO-1)  
 Q.37 Explain the different steps of Project Planning in detail. (CO-2)  
 Q.38 Explain the various selection tools of Photoshop in detail. (CO-4)

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