

M4.2- R4: INTRODUCTION TO MULTIMEDIA

NOTE:

1. There are **TWO PARTS** in this Module/Paper. **PART ONE** contains **FOUR** questions and **PART TWO** contains **FIVE** questions.
2. **PART ONE** is to be answered in the **OMR ANSWER SHEET** only, supplied with the question paper, as per the instructions contained therein. **PART ONE** is **NOT** to be answered in the answer book.
3. Maximum time allotted for **PART ONE** is **ONE HOUR**. Answer book for **PART TWO** will be supplied at the table when the answer sheet for **PART ONE** is returned. However, candidates, who complete **PART ONE** earlier than one hour, can collect the answer book for **PART TWO** immediately after handing over the answer sheet for **PART ONE**.

TOTAL TIME: 3 HOURS

TOTAL MARKS: 100
(PART ONE – 40; PART TWO – 60)

PART ONE **(Answer all the questions)**

1. **Each question below gives a multiple choice of answers. Choose the most appropriate one and enter in the “OMR” answer sheet supplied with the question paper, following instructions therein. (1x10)**
 - 1.1 With reference to multimedia elements, pick the odd-one out from the following:
 - A) Graphics
 - B) Animation
 - C) Video Script
 - D) Audio
 - 1.2 In which type of streaming multimedia, file is delivered to the client but not shared?
 - A) Real-time streaming
 - B) Progressive downloads
 - C) Compression
 - D) None of the above
 - 1.3 The effect used to introduce each slide in a slide presentation is called?
 - A) Animation
 - B) Bulleting
 - C) Transition
 - D) Mapping
 - 1.4 Graphics that contain movement are often referred to as
 - A) Motion
 - B) Animation
 - C) Premier Adobe
 - D) Flash
 - 1.5 JPG compression analyzes images in block of _____ pixels in size and selectively reduces the detail within each block.
 - A) 8 * 16
 - B) 16 * 16
 - C) 8 * 8
 - D) 4 * 4

- 1.6 Adobe Flash is a software for creating _____?
- A) Vector Graphics
 - B) Spreadsheets Graphics
 - C) Virtual Reality
 - D) None of the above
- 1.7 What is another name for 2D animation?
- A) Cel animation
 - B) Vector Animation
 - C) Bit Animation
 - D) None of the above
- 1.8 Which of the file format has a smaller file size: WAV, MP3 and MP4?
- A) WAV
 - B) MP3
 - C) MP4
 - D) Both A) and B) are of equal size
- 1.9 The text color in a presentation should contrast with the _____ color.
- A) CPU
 - B) Frame
 - C) Stack
 - D) Background
- 1.10 A Multimedia presentations can be?
- i) Linear
 - ii) Non-linear
- A) Only i)
 - B) Only ii)
 - C) Both i) and ii)
 - D) None of the above

2. Each statement below is either TRUE or FALSE. Choose the most appropriate one and ENTER in the “OMR” answer sheet supplied with the question paper, following instructions therein. (1x10)

- 2.1 Another name for virtual reality is artificial intelligence.
- 2.2 Multimedia is a combination of audio and animation.
- 2.3 Appropriate movie file format include ASF and AVI.
- 2.4 Movements that appear randomly are effective.
- 2.5 Hypertext allows information to be linked only in sequential format.
- 2.6 Creating key frames and objects with the use of software to help fill in the movement of the objects in the in-between frames is called Tweening.
- 2.7 A bit contains one of two possible values 0 or 1.
- 2.8 The density of the pixels on a computer screen is measured by DPI (dots per inch).
- 2.9 Using Corel Draw you can create raster type of graphics.
- 2.10 JPG is one of the video file extensions.

3. Match words and phrases in column X with the closest related meaning/ word(s)/phrase(s) in column Y. Enter your selection in the “OMR” answer sheet supplied with the question paper, following instructions therein. (1x10)

X		Y	
3.1	An example of video editing software	A.	Virtual Reality
3.2	Which would not be appropriate for electronic portfolios	B.	Executable Archive
3.3	Rendering	C.	Macromedia Director
3.4	Popular desktop publishing program	D.	Field Trips
3.5	Vector Drawing use	E.	Image Editors
3.6	Virtual Systems are used for	F.	3D Animation
3.7	Public Domain	G.	iMovie
3.8	Programs for creating and editing bitmap images	H.	Cartesian Co-ordinates
3.9	Raster images are also known as	I.	Freely without a license
3.10	Program used to create and edit vector images	J.	Bitmap images
		K.	Animation
		L.	Audio data compression
		M.	Adobe Illustrator

4. Each statement below has a blank space to fit one of the word(s) or phrase(s) in the list below. Enter your choice in the “OMR” answer sheet supplied with the question paper, following instructions therein. (1x10)

A.	MIDI	B.	Multimedia	C.	Authoring
D.	Bitmap	E.	Windows Media	F.	Frames Per Second
G.	File Sound/Music/ Audio File	H.	Mapping	I.	Graphics Suite
J.	Graphical	K.	Morphing	L.	Direct
M.	Virtual Reality				

- 4.1 FPS stands for _____.
- 4.2 The overall Web site design is commonly represented in a(n) _____ map.
- 4.3 _____ is a shorthand representation of music stored in numeric form.
- 4.4 Creating a web site is commonly referred to as Web _____.
- 4.5 MP3 is an extension of a(n) _____ file.
- 4.6 Images made up of thousands of pixels are called _____.
- 4.7 _____ is a special effect in which one image seems to melt into another.
- 4.8 A computer-generated environment that allows users to experience events that are not happening in real life is called _____.
- 4.9 CorelDraw is an example of a _____.
- 4.10 Networking is essential for _____ communication and sharing of resources across platforms.

PART TWO
(Answer any **FOUR** questions)

- 5.**
- a) Explain in detail the Five Multimedia Elements.
 - b) Explain the relevance of compression with respect to multimedia on Internet.
 - c) Explain the components of MIDI.
- (5+5+5)**
- 6.**
- a) What is the relation between RGB and CMY Color Models?
 - b) Differentiate Hypermedia and Hypertext? Also write in detail about families and faces of fonts, character sets used in Multimedia.
- (6+9)**
- 7.**
- a) Explain in detail any three broadcast and video standards and recording formats commonly used in multimedia.
 - b) Define Web Server and Web Browser.
 - c) Differentiate between MPEG1 and MPEG2 Video compression Techniques.
- (6+4+5)**
- 8.**
- a) Answer the following questions based on Macromedia Flash:
 - i) What is the full form of fps? What will happen if the Frame rate is decreased from 12 to 5 fps?
 - ii) Write the difference between a guide layer and a mask layer.
 - b) Explain in detail about various Image Editing Tools.
 - c) Explain in brief the following:
 - i) Cel Animation
 - ii) Dithering
- (5+5+5)**
- 9.**
- a) What are authoring tools? Explain in brief the Card and Icon based Authoring Tools.
 - b) For each of the following areas, identify a situation where multimedia is used:
 - * leisure and entertainment
 - * education and training
 - * virtual reality and simulations
 - c) Explain in brief the following:
 - i) White Balance
 - ii) Vector Graphics
- (5+6+4)**