



MID-TERM EXAMINATION PAPER

FACULTY: COMPUTER SCIENCE AND MULTIMEDIA

COURSE : BACHELOR OF INFORMATION TECHNOLOGY (BIT)

YEAR/ SEMESTER : THIRD YEAR / SIXTH SEMESTER

MODULE TITLE : MULTIMEDIA SYSTEM

DATE : 7TH MARCH 2022

TIME ALLOWED : 3 HOURS

START : 6:30 AM – 9:30 AM

SET: A

Instruction to candidates

- 1. This question paper has THREE (3) Section
- 2. Answer ALL questions in Section A, MCQ.
- 3. Answer **5** questions in Section B, MSAQ
- 4. Answer 2 questions in Section C, MEQ
- 5. No scripts or answer sheets are to be taken out of the Examination Hall.
- 6. For Section A, answer in the OMR form provided.

Do not open this question paper until instructed.

(Candidates are required to give their answers in their own words as far as practicable)

SECTION A

	Multiple Choice Questions		(30*1=30)		
1.	The ability of seeing the picture of the other person in a video conference is a major				
	improvement over just hearing the				
	a. Voice	c.	Video		
	b. Speech	d.	Audio		
2.	Many web-based systems have interfaces based of	on for	ms.		
	a. Server	c.	Chrome		
	b. Web	d.	Browser		
3.	Which compression loses data?				
	a. Lossy compression	c.	Both A and B		
	b. Lossless compression	d.	None of the above		
4.	The should use terms and concepts which are drawn from the experience of the				
	people who will make most use of the system.				
	a. Interface	c.	Symbol		
	b. Interact	d.	None of above		
5.	If frames are displayed on screen fast enough, we get an impression of				
	a. signals.		packets.		
	b. motions.		bits.		
6.	In Audio and Video Compression, each frame is divided into small grids, called picture				
	elements or				
	a. frame.		pixels.		
	b. packets.		mega pixels.		
7.	Joint Photographic Experts Group (JPEG) is used to compress				
	a. music.		images.		
	b. pictures.	d.	frames.		
8.	The expansion for MIDI is				
	a. Musical Instrument Digital Interface				
	b. Musical Instrument Data Interface				
	c. Musical Instructions Digital Interface				
	d. Musical Information Data Interface				
9.	. Information presentation is concerned with system information to system users.				
	a. Representing		Requesting		
1.0	b. Presenting	d.	None of above		
10.	. There are main elements in multimedia.		~		
	a. 4	c.			
	b. 3	d.	_		
11. Visualization can reveal between entities and trends in the data.					
	a. Relationships		Information		
1.0	b. Contrition		Data		
12. Repeated occurrence of the same character is called					
	a. Word	c.	Bit		

d. Character

b. Run

c.	Mark up				
d.	None of above				
c.	Amplitude				
d.	Wave length				
	-				
c.	Point				
d.	Illusion				
c.	Graphic Information Format				
d.	Graphic Interchange Format				
value	es each representing a				
c.	Value				
d.	numerical				
ion a	and retains it.				
c.	Control				
d.	Contribution				
c.	3				
d.	4				
c.	packets.				
d.	Slots				
nenc	on known as persistence of				
	-				
c.	Illusion				
d.	None of above				
c.	Language interpreter				
d.	Software interface				
valu	es, the gray levels range from				
c.	16				
d.	32				
roce	ess				
c.	In between				
d.	Middle				
25. What is compression?a. To compress something by pressing it very hardly					
b. To minimize the time taken for a file to be downloaded					
dowi	•				
	d. c. d.				

d.	To convert one file to an	other					
26. How many attributes control the characteristics of sound?							
a.	5	c.	3				
b.	4	d.	2				
27. One component which contains nearly all GUI programs will have							
a.	Frame	c.	Monitor				
b.	Mouse	d.	Button				
28. Another problem known as flicker occurs due to a fluctuation of brightness							
perception.							
a.	Sporadic	c.	Aperiodic				
b.	Periodic	d.	All of above				
29 adds an extra dimension to an interface and can help the user understand complex							
information structures.							
a.	Information	c.	Color				
b.	Fact	d.	Paint				
30 are typical examples of static images.							
a.	Photographs	c.	Jokes				
b.	File	d.	Messages				

SECTION B

Short Question Answer

Attempt any five (5) questions out of eight (8) questions

(5*6=30)

- 1. Define Multimedia. Explain the characteristics of multimedia.
- 2. Explain the various user interfaces.
- 3. Discuss the color dithering technique with example.
- 4. Explain the advantage and disadvantages of bitmap over vector image.
- 5. How can you generate animation using computer?
- 6. Differentiate between lossless and lossy compression.
- 7. Explain the applications of multimedia in e-learning.
- 8. Discuss the abstraction levels of the programming of multimedia system.

SECTION C

Long Question Answer

Attempt any two (2) questions out of three (3) questions

(2*20=40)

- 1. What are the step of JPEG compression? Explain. Why do we need Huffman coding? Explain it with suitable example.
- 2. 10 seconds of stereo music at 44.1 KHz sampling rate having 16 bits' resolution then what will be the file size? Explain computer animation as well as step required to produce computer animation in details. Elaborate video resolution with example.
- 3. Differentiate between image and graphics. List and explain the various color models used in image and videos.

****BEST OF LUCK****