University of Mumbai

Examination June 2021

Examinations Commencing from 1st June 2021

Program: Information Technology

Curriculum Scheme: Rev2016

Examination: TE Semester VI

Course Code: ITDLO6024 and Course Name: Multimedia System

Time: 2 hour

Max. Marks: 80

Q1.	Choose the correct option for following questions. All the Questions are		
Ľ	compulsory and carry equal marks		
1.	While enlarging the image,image will blur whileimage will not		
1.	blur.		
Option A:	vector,bitmap		
Option B:	bitmap,gif		
Option C:	bitmap,vector		
Option D:	bitmap, jpeg		
2.	What is the extension at the image file used by digital cameras and supports upto		
	24-bit colors?		
Option A:	.bmp		
Option B:	.jpeg		
Option C:	.gif		
Option D:	.tif		
3.			
3.	If I want to use Google meet as a tool for my online class.		
	Which of the following will be best supported Multimedia System Architecture for the same?		
Option A:	Workstation Architecture		
Option B:	IMA Architecture		
Option D:	Network Architecture		
Option D:	Internet Architecture		
Option D.			
4.	correlation between adjacent frames in a sequence of images in		
	video applications.		
Option A:	Spatial redundancy		
Option B:	Spectral redundancy		
Option C:	Temporal redundancy		
Option D:	Coding redundancy		
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5.	in JPEG aims at reducing the total number of bits in the		
	compressed image.		
Option A:	Zig-zag ordering		
Option B:	run-length encoding		
Option C:	Quantization		
Option D:	Entropy coding		
6.	WAVE sound file format bit stream encoding is the		

Option A:	PCM			
Option B:	DM			
Option C:	PWM			
Option D:	DPCM			
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7.	if I want to edit my childhood photograph, first I have to convert it into the digital			
	format. What would be the best suitable device for the same?			
Option A:	Camera			
Option B:	scanner			
Option C:	printer			
Option D:	Electric pen			
	^ 			
8.	A structure of linked elements through which the user can navigate, interactive			
	multimedia becomes			
Option A:	Hypermedia			
Option B:	Hypertext			
Option C:	inter media			
Option D:	digital media			
9.	provide the framework for organizing and editing the elements of a			
	multimedia project			
Option A:	Distributed multimedia applications			
Option B:	Multimedia database			
Option C:	Multimedia authoring tools			
Option D:	Multimedia architecture			
10.	Which of the following is not the feature of multimedia authoring tools?			
Option A:	Editing and organizing features			
Option B:	Interactivity features			
Option C:	Performance tuning and play back features			
Option D:	Communication feature			
11.	Which one of the following authoring system are designed for single user and			
	generally for single streams?			
Option A:	Timeline based authoring			
Option B:	Dedicated authoring systems			
Option C:	Programmable authoring systems			
Option D:	Telephone authoring systems			
10	The measure of delivering multimedia data and as a l' '1 C			
12.	The process of delivering multimedia data such as audio or video from a			
Ontion A.	streaming service provider to an end user is called			
Option A:	Streaming media Provdensting			
Option B:	Broadcasting Video conferencing			
Option C:	Video conferencing Telecosting			
Option D:	Telecasting			
13.	Which of the following step is not involved in the design process of multimedia?			
Option A:	Identification of the requirements of the system			
Option A: Option B:	Identifying the design issues			
Option C:	Communication with the users			
Option C.				

Option D:	Implementation				
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14.	The medium in which the stored document which has been distributed over the distribution medium is converted to facilitate viewing or reading by the end user is called				
Option A:	Transmission medium				
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Option B:	Presentation medium				
Option C:	Representation medium				
Option D:	Information exchange medium				
15.	Which one of the following is not the property of multimedia database				
15.	management system?				
Option A:	Persistence of data				
Option B:	Security of data				
Option C:	Consistent view of data				
Option D:	Structure of data				
option D.					
16.	Which image files are a lossy format?				
Option A:	GIF				
Option B:	MPEG				
Option C:	JPEG				
Option D:	PNG				
17.	Image data usually changes slowly across an image, that is the reason JPEG				
	Encoding performs DCT on image blocks				
Option A:	4 x4				
Option B:	8x8				
Option C:	16x16				
Option D:	32x32				
18.	Which one of the following is not the design issue of multimedia authoring?				
Option A:	Display resolution				
Option B:	User interfaces				
Option C:	Network interfaces				
Option D:	Storage formats				
19.	Which of the following component is not involved in a typical distributed				
	application environment?				
Option A:	Application software				
Option B:	User interface and service agent				
Option C:	Component service agent				
Option D:	System software				
20	The primery role of middlewere in distributed workgroup computing is				
20.	The primary role of middleware in distributed workgroup computing is				
Option A:	To link the front end clients to the distributed systems				
Option B:	To link the multiple clients with each other				
Option C:	To link backend database to front end clients				
Option D:	To link the database to the server				

Q2	Solve any Four out of Six	5 marks each
А	Describe multimedia database.	
В	Compare CCITT group 3 one D and CCITT g	roup 3 two D.
С	What are the different types of redundancies in	n image?
D	Compare RTF and TIFF.	
E	Explain virtual reality in details.	
F	What are design issues face to design the auth	oring system.

Q3.	Solve any Two Questions out of Three	10 marks each
A	A networking company uses a compression technique message before transmitting over the network. Suppose contains the following characters with their frequency: a:7 b:16 c:19 d:45 e:13 f:6 Note that each che message takes 1 byte. If the compression technique us Coding, how many bits will be saved in the message?	se the message
В	Write a short note on Distributed Multimedia System.	
С	Explain JPEG encryption in details.	