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	Reg. No. :
G	Question Paper Code: 32841
M.E./M.Tech.	DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2022
	Third Semester
	Aeronautical Engineering
	MU 4153 – PRINCIPLES OF MULTIMEDIA
Engineering/M.E. and Cyber S Communication Integrated Manuf Science and Engin Learning/M.I. Networks)/M.E. Processing/M.E. I Communicati Technologi Environmental Engineering/M Combustion En M.E. Medical Ele Technology/M.E. M.E. Proc M.E. Soil Mecha M.E. Therm Systems/M. M.Tech. Chemi Science and Tech	Aerospace Technology/M.E. Applied Electronics/ M.E. Automobile Big Data Analytics/M.E. Biomedical Engineering/M.E. Biometrics Security/M.E. CAD/CAM/M.E. Communication Systems/M.E. and Networking/M.E. Computer Aided Design/M.E. Computer facturing/M.E. Computer Science and Engineering/M.E. Computer neering (With Specialization in Artificial Intelligence and Machine E. Computer Science and Engineering (With Specialization in Construction Engineering and Management/M.E. Digital Signal Electronics and Communication Engineering/M.E. Electronics and con Engineering (Industry Integrated)/M.E. Embedded System itses/M.E. Energy Engineering/M.E. Engineering Design/M.E. Engineering/M.E. Industrial Engineering/M.E. Industrial Safety E. Infrastructure Engineering and Management/M.E. Internal Engineering/M.E. Manufacturing Engineering/M.E. Multimedia Power Electronics and Drives/M.E. Power Systems Engineering/ and Development/M.E. Software Engineering/ and Engineering/M.E. VLSI Design/M.E. VLSI and Embedded Tech. Biopharmaceutical Technology/M.Tech. Biotechnology/M.Tech. Nano anology/M.Tech. Plastics Technology/M.Tech. Remote Sensing and tile Technology/M.Tech. Textile Technology (with Specialization in Textile Chemistry)
m: m 1	(Regulations: 2021)
Time: Three hour	
	Answer ALL questions.
	PART A — $(10 \times 2 = 20 \text{ marks})$
 What are the 	e six elements of multimedia?
List the diffe	erent approaches for multimedia streaming.
3. Define Mobil	le multimedia. Give example.

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5.	What type of compression is used for videos?	
6.	Define multimedia indexing.	
7.	State the need of a codec to watch videos.	
8.	s JPEG 2000 lossy or lossless.	
9.	What is cloud gaming and list the advantages of it?	
10.	Mention the purpose of text editing tool in multimedia.	
	PART B — $(5 \times 13 = 65 \text{ marks})$	
11.	 What type of multimedia is document? Wire explain the multimedia document architecture. 	
	Or	
	b) List the three types of multimedia networking challenges faced during multimedia transm mobile networks.	5. List and explain the key ission over wireless and (13)
12.	(a) (i) List the types of color models in mult explain the CMYK color model.	imedia. With illustrations (10)
k	(ii) What's the difference between a colour m Or (b) Brief how animation is useful in multanimation with some examples.	imedia. List the types of
13.	 (a) Describe the features and types of authorin about icon and object – based tools. 	g tools. Explain in detail (13)
	Or	
	(b) (i) State the importance and salient feature editing.	s of image and sound (5)
	(ii) List the tools used for editing pict relevant diagram.	ures in multimedia with (8)
14.	(a) Explain MPEG video compression standard as of MPEG compression technique.	nd describe the components (13)
	Or	
	(b) What are the three types of GIF? Explain w coding standard and JPEG standard.	ith example about the GIF (13)
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 (a) What are the five phases of ADDIE model? Explain how ADDIE model is used for building multimedia application. (13)

Or

(b) What is feature extraction in multimedia IR? How is it helpful for data retrieval? Explain the content – based multimedia retrieval system in detail. (13)

PART C — $(1 \times 15 = 15 \text{ marks})$

- 16. (a) (i) What is the difference between JPEG and JPEG 2000?
 - (ii) Explain the JPEG 2000 image compression technique. (15)

Or

(b) Explain the role of Social Media towards multimedia information sharing Brief about different social media platform for multimedia sharing. (15)

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