

VI Semester B.A./B.Sc. Examination, May/June 2014 (Semester Scheme) COMPUTER SCIENCE – VIII Multimedia Technology

(F - 70 - 2013 - 14 and Onwards/R - 60 Prior to 2013 - 14)

Time: 3 Hours

Max. Marks: 70/60

Instructions: I) Freshers (2013-14) have to answer all the A, B, C, D
Sections which carries 70 marks.

II) Repeaters (Prior to 2013-14) have to answer Sections A, B and C only which carries 60 marks.

SECTION-A

Answer any ten questions. Each question carries one mark.

 $(1 \times 10 = 10)$

- 1. What is meant by multimedia?
- 2. Define Amplitude.
- 3. Expand GIF and JPEG. risky pnibed evitabling useful to seligioning entrazuoaid.
- 4. Define loudness.
- 5. How is lossless compression different from lossy compression?
- 6. What is meant by aspect ratio?
- 7. What is MIDI?
- 8. Give the bandwidth of music audio signal.
- 9. What is ODEC?
- 10. Write the advantage of vector image. The standard in a standard in a
- 11. What is a macro block?
- 12. What is distortion?



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SECTION-A

Answer any ten questions. Each question carries one mark.

 $(1 \times 10 = 10)$

- 1. What is meant by multimedia?
- 2. Define Amplitude.
- 3. Expand GIF and JPEG. With a principles of linear predictive coding with a DISCUSS the principles of linear predictive coding with
- 4. Define loudness.
- 5. How is lossless compression different from lossy compression?
- 6. What is meant by aspect ratio?
- 7. What is MIDI?
- 8. Give the bandwidth of music audio signal.
- 9. What is ODEC?
- 10. Write the advantage of vector image. The advantage of vector image of vector image.
- 11. What is a macro block?
- 12. What is distortion?



SECTION-B

	SECTION-L	,
13.	3. Explain any two multimedia applications.	8.8.A.8 retreme2 iV (3×5=15)
14.	Explain Nyquist theorem.	
15.	5. What is unformated text ? Explain.	
16.	Write a note on color principles. Tables and base 41 - 8192 - 97 - 3)	
17.	7. Briefly discuss Raster scan principle.	
18.	Differentiate between vector and bitmap images.	
19.	19. Discuss different types of picture frames.	
SECTION - C		
20.	0. Explain the process of analog to digital conve	ersion. (7×5=35)
21.		
22.	. Explain the working of scanner and digital camera.	
23.	Discuss in detail Broadcast Television.	
24.	Discuss the various phases of JPEG compression.	
25.	5. Discuss the principles of linear predictive coding with a neat block diagram.	
26.	Explain following concepts in detail:	
	a) Digitized documents b) TIFF	
27.	7. Write a note:	(2+5)
	a) Streaming video b) MPE	EG and its standards.
	SECTION-I	7. Whatis MiDi ?
Answer any one question. Each question carries ten marks. (1×10=10)		
[2013-14 and onwards students only]		
28.	28. a) Explain different formats of video compression techniques.	
	b) Write a note on Hyper text.	
29. Explain:		
	a) DPCM b) Code-excited LPG.	(5+5)



SECTION-B

Explain any two multimedia applications. $(3 \times 5 = 15)$ 14. Explain Nyquist theorem. 15. What is unformated text? Explain. 16. Write a note on color principles. The brown D. bons & F = \$100 - 607 - 90 17. Briefly discuss Raster scan principle. 18. Differentiate between vector and bitmap images. Discuss different types of picture frames. SECTION-C 20. Explain the process of analog to digital conversion. $(7 \times 5 = 35)$ Explain Huffman's coding with suitable illustration. Explain the working of scanner and digital camera. Discuss in detail Broadcast Television. Discuss the various phases of JPEG compression. 24. 25. Discuss the principles of linear predictive coding with a neat block diagram. 26. Explain following concepts in detail: a) Digitized documents b) TIFF. 27. Write a note: (2+5)b) MPEG and its standards. a) Streaming video SECTION - D Answer any one question. Each question carries ten marks. $(1 \times 10 = 10)$ [2013-14 and onwards students only] 28. a) Explain different formats of video compression techniques. b) Write a note on Hyper text. 29. Explain: b) Code-excited LPG. a) DPCM (5+5)