

SUBJECT CODE:- 476
FACULTY OF ENGINEERING AND TECHNOLOGY
T.E.(IT) Examination Nov/Dec 2015
Multimedia Computing
(Revised)

[Time: Three Hours]

[Max. Marks: 80]

"Please check whether you have got the right question paper."

- N.B.i) Figures to the right indicate full marks.
 ii) Assume suitable data if required and state it clearly.
 iii) Question number 1 & 6 are compulsory, then attempt any two questions from each section.

Section A

Q.1	Solve any five questions.	10
	a) Define Multimedia Presentation.	
	b) What is meant by horizontal scan rate?	
	c) How do colors CRT displays various colors on the screen.	
	d) What is meant by Anti-aliasing & dithering?	
	e) What is an image? Distinguish between binary & gray scale images.	
	f) Distinguish between loudness & pitch of a sound wave.	
	g) Differentiate between standard ASCII table & extended ASCII table.	
Q.2	a) Discuss in brief how an analog signal is converted to digital form.	08
	b) Explain the various principles of animation?	07
Q.3	a) With suitable diagram explain construction & working principles of scanner?	08
	b) Explain in brief different classes of amplifier.	07
Q.4	a) What are the components of a graphics system? Explain their corresponding functions.	08
	b) Discuss about major video recording and storage format.	07
Q.5	a) Explain the working principles of an analog video camera.	08
	b) What is the role of the testing & feedback stage in improving the quality of the presentation? Justify your answer.	07

SECTION-B

Q.6	Attempt any five questions.	10
	a) What are the essential components of network?	
	b) What is meant by Runlength Encoding?	
	c) Define TIFF.	
	d) What is spatial & temporal redundancy?	
	e) Define set-top box.	
	f) What is DVD-RAM?	
	g) What is compression ratio?	
Q.7	a) A document contains letters A through F with frequencies as indicated A:0.25,B:0.1,C:0.2,D:0.15,E:0.26,F:0.04 i) Use Huffman coding to derive a code word set ii) Find average number of bits per code word. iii) Find the minimum number of bits required assuming fixed length code words.	08
	b) Explain various trends in wireless interactive multimedia.	07
Q.8	a) Explain in brief the various parts of MPEG compression. b) Differentiate between CD & DVD.	07
Q.9	a) Comment on H.261 compression standard. b) Explain various modes of CD-ROM.	08
Q.10	a) Explain the difference between video conferencing and video-on demand. b) Explain in brief the various parts of the MPEG-2 standard.	8 7