

SUBJECT CODE NO:- P-88
FACULTY OF ENGINEERING AND TECHNOLOGY
T.E.(IT) Examination MAY/JUNE-2016
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) Q.No.1 & 6 are compulsory, and then attempt any two questions from each section.

SECTION: A

- Q.1 Attempt any five questions. 10
- a) List the techniques used for text compression.
 - b) What is the source of sound energy? How does it flow from one place to another?
 - c) Define acoustics & its types.
 - d) What is meant by font? Differentiate between bitmap fonts & vector fonts.
 - e) Define the fundamental properties of waves.
 - f) Distinguish between author & audience.
 - g) What is the necessity of image indexing?
- Q.2
- a) Mention major applications where graphics can be used. Explain various components of graphics system & their corresponding functions. 08
 - b) Explain in brief plasma display panel. 07
- Q.3
- a) What is meant by multimedia presentation? Describe its important characteristics. 08
 - b) Discuss in brief about the major text file formats. 07
- Q.4
- a) Describe the working principle of a digital camera. 07
 - b) Explain in brief various types of microphone. 08
- Q.5
- a) Discuss the various factors responsible for measuring the quality & performance of video. 07
 - b) What is MIDI? How different MIDI devices can be connected to a computer. 08

SECTION: B

- Q.6 Attempt any five questions. 10
- a) Differentiate between intraframe and interframe compressions.
 - b) What is L Z coding technique?
 - c) Define concentric tracks & spiral tracks with neat diagram.
 - d) What is video-on-demand?
 - e) Enlist the limitations of CD-R.
 - f) What do you mean by zig-zag scan with respect to JPEG compression?
 - g) What is seek time?
- Q.7
- a) Explain with diagram how the DPCM encoder and decoder work. 08
 - b) Explain working principle of compact disc. 07
- Q.8
- a) What is the Huffman coding scheme? How is it different from Shannon-fano coding? 08
 - b) Explain in brief the various parts of the MPEG-4 standards. 07

Q.9	a) Describe technical basics of digital versatile disc with diagram.	08
	b) Explain applications of multimedia communication networks.	07
Q.10	Write short note on	
	1) Interactive TV	05
	2) Run length encoding	05
	3) CD-ROM	05