Code: AT65

Subject: MULTIMEDIA SYST

ROLL NO.

AMIETE – IT

Time: 3 Hours

JUNE 2013

SYST Max. Marks: 100

PLEASE WRITE YOUR ROLL NO. AT THE SPACE PROVIDED ON EACH PAGE IMMEDIATELY AFTER RECEIVING THE QUESTION PAPER.

NOTE: There are 9 Questions in all.

- Question 1 is compulsory and carries 20 marks. Answer to Q.1 must be written in the space provided for it in the answer book supplied and nowhere else.
- The answer sheet for the Q.1 will be collected by the invigilator after 45 minutes of the commencement of the examination.
- Out of the remaining EIGHT Questions answer any FIVE Questions. Each question carries 16 marks.
- Any required data not explicitly given, may be suitably assumed and stated.

Q.1 Choose the correct or the best alternative in the following:

 (2×10)

a. Which one of the following is not/are not typically part of a multimedia specification?

(A) Text	(B) Odors
(C) Video	(D) Picture

b. PDA stands for _____

(A) Primary digit asset
(C) Personal digital assistant

- (**B**) Practical digital accessory
- **(D)** Processor digital application
- c. Dynamic HTML uses _____ to define choices ranging from line height to margin width to font face.
 - (A) Cascading style sheets(B) font mapping(C) Font substitution(D) software robots
- d. Which image file type is best for photographs?

(A) Vector	(B) Laser
(C) Shockwave	(D) bitmap

e. A 16-bit image is capable of representing how many different colors ?

(A) 2	(B) 16
(C) 65,536	(D) 256

f. Most authoring packages include visual effects such as:

(A) Panning, zooming and tilting	(B) Wipes, fades, zooms and dissolves
(C) Morphing	(D) Tweening

	ROLL NO. Subject: MULTIMEDIA SYS' dely supported for web animation is
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g. The file format that is most with	dely supported for web animation is
(A) PICT	(B) JPEG
(C) GIF89a	(D) AIFF
h. Movies on film are typically sl	
(A) 15 frames per second	(B) 48 frames per second
(C) 24 frames per second	(D) 30 frames per second
i. In a video camera, the sensor	that picks up light is called a CCD that stands for
(A) Charge coupled device	(B) Color coding date(D) Carbon crystal digitizer
(C) Custom color descriptor	(D) Carbon crystar digitizer
j. Multimedia hardware usually i	ncludes
(A) Television and VCRs	
(B) Microphones and cassette	-
(C) Television and camcorders	
(D) Speakers, a sound board as	nd a CD-ROM drive

Answer any FIVE Questions out of EIGHT Questions. Each question carries 16 marks.

Q.2	a.	Discuss briefly the various software tools available for carrying out tag multimedia.	sks in (10)
	b.	Most common data types for graphics and image file formats are: 24-bit and 8-bit color. Discuss them briefly.	color (6)
Q.3	a.	Write a brief note on channel and formant vocoder.	(8)
	b.	Discuss briefly the important properties of Huffman coding.	(6)
	c.	Compare discrete cosine transform (DCT), and discrete Fourier Tran (DFT).	sform (2)
Q.4	a.	Write down the salient difference between conventional T.V. and High Definition TV (HDTV) and also highlight the various advantages of digital representation for video.	(8)
	b.	Video signals can be organised in three different ways. Discuss them briefl	y. (8)

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Q.5	 a. Describe briefly about (Any <u>TWO</u>) (i) MIDI as a scripting language (ii) Hardware aspects of MIDI (iii) Structure of MIDI messages 	ROLL NO MEDIA SYS'T (hophing com	
	b. Discuss briefly about Karhunen – Loeve Transform (Kl	LT). (6)	
Q.6	a. JPEG standard supports four different modes which Explain each one of them briefly.	ich are commonly used. (8)	
	b. Discuss four common negotiable coding options specifi	Fied in H.263. (8)	
Q.7	a. Define MPEG-21 and its various key elements.	(8)	
	b. Write a brief note on MPEG Layers.	(8)	
Q.8	a. What is Internet telephony? Write down its main advan	ntages over POTS. (8)	
	b. Describe briefly five different modes of predictions def	fined in MPEG-2. (5)	
	c. Describe briefly motion compensation in MPEG-1.	(3)	
Q.9	a. Onion skinning, adding sound and morphing are some animation. Discuss each one of them briefly.	e specialized techniques of (8)	
	 b. Write brief notes on any <u>TWO</u> of following: (i) CD Interface (ii) CD formats (iii) Laser Disc working principal 	$(4 \times 2 = 8)$	