END SEMESTER EXAMINATION 2019

Semester: 3rd

Subject Code: AMT-301

MULTIMEDIA SYSTEMS AND TECHNOLOGY CONTRAL INSTITUT

Full Marks -70

Time - Three hours

The figures in the margin indicate full marks for the questions.

Illustrate your answers with suitable sketches and examples wherever necessary.

Instructions:

- 1. Questions on PART A are compulsory.
- 2. Answer any five questions from PART B.

PART – A Marks –25

1. Fill in the blanks: $1 \times 10 = 10$

- (a) The physical components of a computer are collectively called ———.
- (b) Turbo C is a ——— software.

[Turn over

97/AMT-301/MS&T (2)	(c) ASCII is a 7-bit character coding system.		(a) MP3 is a video file format. (b) All symbols are icons but all icons are not	2. Write true or false: 1×1		(i) The third stage of a multimedia project is	(i) Each still picture of a video is termed as	(h) The unit of sound volume is called	(g) ——— cells are better for low-light	peface 1	(f) A ———— is a collection of characters of a single size and style of a particular	(e) Run-length encoding is a ———	(d) Digital signals are denoted by — waves.	(c) Time independent media are called – media.	
97/AMI	item.		e not (b)	1×10=10	-	The state of the s	a 3	J. S.		(h)	rs of (g)	data (f)	(e)	(d)	
97/AMT-301/MS&T (3) [Turn over	(iii) Ctrl+Z (iv) Ctrl+Alt+Z	(i) Ctrl+Shift+Z (ii) Ctrl+U	What is the shortcut key combination for undoing multiple times in Adobe Photoshop?	(iii) DVD (iv) MS Office	(i) Audio (ii) Workstations	Which among the following is a multimedia object?	Choose the correct answer: $1 \times 5 = 5$	Self-extracting archives are useful for delivering projects in compressed form.		A navigation map is also known as a site map.	Composite video signals contains bound luminance and chrominance information on a single channel.	ressive for	MIDI files are much more compact than digital audio files.	A 16-bit image is also known as a true color image in windows systems.	

<u>o</u> (i) JPEG Which amongst the following digital image file formats support alpha channel? (ii) BMP 5 (a) Write in your own words why text is an important part of multimedia?

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- The number of pins (printing mechanism) the 9 Define: fonts, cases and buttons 2+2+2=6
- 6 (a) different types of image manipulation? 4 What is image manipulation? What are the

a

best dot-matrix printer contains are

(iii) PNG

(iv) PDF

- 3 Write a short note on Dithering.
- TECHNOLOGY HORE (a) What is the difference between musical limitations of sound for humans? 2+3=5 What is psychoacoustics? What are the

<u>e</u>

Which among the following is

tundamental organizing structure?

(iii) Hierarchical

(iv) Composite.

(ii) Rectilinear

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(i) Linear

(iii) 24

(iv) 36

(i) 09

(ii) 16

- What are interlaced and progressive videos? sound and noise?
- 3 Describe the television broadcast standard used in North and South America. Explain them briefly.
- (a) Briefly describe Local Area Network with a

9

9 What are the various tools associated with Virtual Reality?

- Marks 45 PART - B
- 4. (a) can be applied? What are the various areas where multimedia
- ਭ Describe lossy and lossless data compression. 2+2=4
- 97/AMT-301/MS&T 4
- 70(W)

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- 10. (a) Why is testing of a multimedia project necessary before delivering it? 3
 - (b) Describe Alpha Testing and Beta Testing.



70(W)