

MULTIMEDIA TECHNIQUES (SEMESTER - 8)

CS/B.Tech(EIE-NEW)/SEM-8/IT-802C/09



1.
Signature of Invigilator

2.
Signature of the Officer-in-Charge

Reg. No.

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Roll No. of the
Candidate

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

CS/B.Tech(EIE-NEW)/SEM-8/IT-802C/09
ENGINEERING & MANAGEMENT EXAMINATIONS, APRIL – 2009
MULTIMEDIA TECHNIQUES (SEMESTER - 8)

Time : 3 Hours]

[Full Marks : 70

INSTRUCTIONS TO THE CANDIDATES :

1. This Booklet is a Question-cum-Answer Booklet. The Booklet consists of **32 pages**. The questions of this concerned subject commence from Page No. 3.
2. a) In **Group – A**, Questions are of Multiple Choice type. You have to write the correct choice in the box provided **against each question**.
b) For **Groups – B & C** you have to answer the questions in the space provided marked 'Answer Sheet'. Questions of **Group – B** are Short answer type. Questions of **Group – C** are Long answer type. Write on both sides of the paper.
3. **Fill in your Roll No. in the box** provided as in your Admit Card before answering the questions.
4. Read the instructions given inside carefully before answering.
5. You should not forget to write the corresponding question numbers while answering.
6. Do not write your name or put any special mark in the booklet that may disclose your identity, which will render you liable to disqualification. Any candidate found copying will be subject to Disciplinary Action under the relevant rules.
7. **Use of Mobile Phone and Programmable Calculator is totally prohibited in the examination hall.**
8. You should return the booklet to the invigilator at the end of the examination and should not take any page of this booklet with you outside the examination hall, **which will lead to disqualification**.
9. Rough work, if necessary is to be done in this booklet only and cross it through.

No additional sheets are to be used and no loose paper will be provided

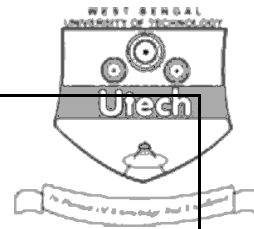
FOR OFFICE USE / EVALUATION ONLY

Marks Obtained

Group – A								Group – B				Group – C				Total Marks	Examiner's Signature
Question Number																	
Marks Obtained																	

.....
Head-Examiner/ Co-Ordinator/ Scrutineer

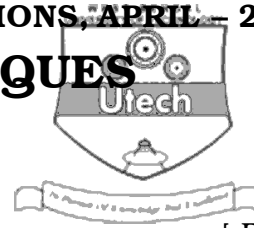
8881-C/D (27/04)



DO NOT WRITE ON THIS PAGE

MULTIMEDIA TECHNIQUES

SEMESTER - 8



Time : 3 Hours]

[Full Marks : 70

GROUP – A

(Multiple Choice Type Questions)

1. Choose the correct alternatives for any *ten* of the following :

10 × 1 = 10

i) JPEG is a

a) Lossless Compression Technique

b) Video Compression Technique

c) Lossy Compression Technique

d) None of these.

☐

ii) To provide comfort to the computer user, the graphics screen is refreshed at the rate of

a) 25 frames per sec

b) 60 frames per sec

c) 200 frames per sec

d) 5 frames per sec.

☐

iii) Which audio standard supports lossless compression ?

a) RAW

b) MP3

c) PCA

d) WAV.

☐

iv) Which one of the following is not related to multimedia ?

a) FoxPro

b) Authorware

c) Macromedia Director

d) Animatorpro.



v) Tweening means

a) splitting of the frame

b) splitting of the layer

c) applying motion effect

d) applying color changing effect.

vi) Hypermedia is

a) a media like text, graphics, video etc.

b) used to make links between different media files

c) a software for making animation files

d) an alias for multimedia.

vii) Huffman Encoding is best suited for

a) Image compression

b) Text compression

c) Video compression

d) None of these.

viii) ATM that is used for communication standards stands for

a) Asynchronous Transfer Mode

b) Automated Teller Machine

c) Asynchronous Teller Machine

d) Automated Transfer Mode.

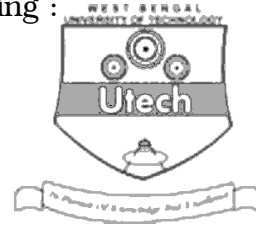
ix) Choose the correct HTML tag for the largest heading :

a) <head>

b) <h6>

c) <h3>

d) <h1>



x) From which tag descriptive list starts ?

a) <LL>

b) <DD>

c) <DL>

d) <DS>

xi) How can you make an e-mail link ?

a) <background>yellow<background>

b) <mail>abc@ymail.com<mail>

c)

d)

xii) The tag which allows you to rest other HTML tags within the description is

a) <TH>

b) <TD>

c) <TR>

d) <CAPTION>

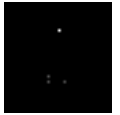
xiii) Which formatting leaves the formatting to the system that display the final output ?

a) Paragraph

b) Descriptive

c) Procedural

d) Character.



6

GROUP – B

(Short Answer Type Questions)

Answer any *three* of the following.



3 × 5 = 15

2. What is digital representation of sound ? How it relates with multimedia ? What is the difference between digitization and quantization ?
2 + 2 + 1
3. What is multimedia database management system ? Explain its characteristics features.
2 + 3
4. Explain the MPEG process for video compression. Compare among MPEG-1, MPEG-2 and MPEG-4 Standard.
3 + 2
5. What is MIDI ? How many kinds of MIDI messages are there ? How many channels are used in MIDI ?
1 + 3 + 1
6. What are the main components of a Visual Display System ? Briefly state their functions. What is authoring tools ? How many types of authoring tools exist ?
3 + 1 + 1

GROUP – C

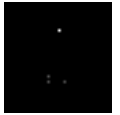
(Long Answer Type Questions)

Answer any *three* of the following.

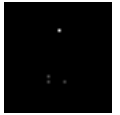
3 × 15 = 45

7.
 - a) What is multimedia ? Briefly describe different characteristics of multimedia presentation.
 - b) Explain different channels and modes of communication.
 - c) What are the different types of multimedia data streams ?
 - d) Compare linear text and hypertext with examples.

(1 + 4) + 4 + 3 + 3



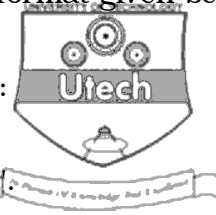
8. a) What is color space ? Briefly describe Image Resolution and Color Depth.
- b) What do you mean by additive and subtractive color model ?
- c) Briefly describe different types of color models used in multimedia system.
- d) What is ATM ? Describe its characteristics. What are the general features of ISDN ?
- (2 + 2) + 3 + 4 + (3 + 1)
9. a) Write down some graphics file formats used in multimedia.
- b) What is the difference between vector graphics and raster graphics ?
- c) What is compression ? Describe JPEG compression.
- d) Which video compression algorithm is most suitable for video-conferencing ?
- 3 + 3 + (2 + 5) + 2
10. a) What is HTML ? How can a multimedia file be embedded into a HTML document ?
- b) Describe the use of <FRAMESET> tag with example.
- c) How are superscripts and subscripts formatted in HTML document ?
- d) Write the HTML code snippet to include the audio file abc.wav in the web page.
- e) Specify the tag and attributes used to create a textbox which can accept maximum of 20 characters with a default value "Enter Name".



8

- f) Write the HTML code to generate a Web Page in the format given below :

Consider the following while writing the HTML code :



- i) Background color of the page should be "Cyan".
- ii) Text style should be Comic Sans MS and color should be Red.
- iii) Picture used in the page is the file "activity.jpg".
- iv) Table should have a border of color blue.
- v) Use the concept of nested lists for creating the list given in the web page with specified bullets.
- vi) Pages linked to :
 - Indoor activities as "in.html"
 - Outdoor activities as "out.html"
- vii) Bottom message should be of size 2. $(1 + 1) + 2 + 2 + 2 + 2 + 5$

11. a) What do you mean by animation ? What is key frame animation ?
- b) What is morphing ? Differentiate between Lossless and Lossy compression.
- c) Describe Hoffman encoding. $(1 + 2) + (3 + 5) + 4$

END