



## **Repeated Questions for Multimedia System Design [M.S.D.]**

***[Those Mark with (\*) are repeated once]***

### **UNIT 1. FUNDAMENTALS OF MULTIMEDIA SYSTEM DESIGN**

- WHAT IS MULTIMEDIA? EXPLAIN VARIOUS ELEMENTS OF MULTIMEDIA?
- **\*\*WHAT IS MULTIMEDIA? EXPLAIN VARIOUS APPLICATION OF MULTIMEDIA WITH AN EXAMPLE.\*\***
- **\*\*EXPLAIN TYPES OF GRAPHICS. DIFFERENTIATE BETWEEN VECTOR IMAGE AND BITMAP IMAGE\*\***
- Explain bitmaps and vector drawing in details.
- **\*\*DISCUSS DIFFERENT TYPES OF MULTIMEDIA STRUCTURES AND HOW THEY MIGHT BE ORGANIZED\*\***
- DISCUSS DIFFERENT TYPES OF MULTIMEDIA STRUCTURES? EXPLAIN IN DETAIL WITH THE HELP OF SUITABLE EXAMPLES.
- EXPLAIN THE ROLES AND RESPONSIBILITIES OF ALL THE MULTIMEDIA TEAM MEMBERS
- SHORT NOTE ON- COMPUTER BASED MULTIMEDIA
- EXPLAIN WITH EXAMPLE ABOUT THE IMPORTANCE OF MULTIMEDIA ON WEB.

### **UNIT 2. MULTIMEDIA INPUT AND OUTPUT TECHNOLOGIES**

- **\*\*\*EXPLAIN IN DETAIL VARIOUS PRINCIPLES OF ANIMATION?\*\*\*** and its various techniques in detail
- **\*\*\* SHORT NOTE ON - ANIMATION TECHNIQUES\*\*\***
- DISCUSS BRIEFLY BROADCAST VIDEO STANDARDS NTSC, PAL, SECAM, AND HDTV
- **\*\*WHAT IS ANIMATION\*\***
- DEFINE ANIMATION. BRIEFLY OUTLINE VARIOUS TYPES OF ANIMATION FILE FORMATS.
- DIFFERENTIATE BETWEEN – CELL ANIMATION AND PATH ANIMATION





## UNIT 3. MULTIMEDIA FILE FORMAT AND STANDARDS

- EXPLAIN ANALOG DISPLAY STANDARDS AND DIGITAL DISPLAY STANDARDS IN DETAIL.
- \*\*\*WHAT IS MIDI AND DIGITAL AUDIO? COMPARE AND CONTRAST THE USE OF MIDI AND DIGITIZED AUDIO IN MULTIMEDIA APPLICATIONS.\*\*\*
- \*\*Difference between midi and digital audio.\*\*
- SHORT NOTE ON MIDI
- WHAT IS MIDI AUDIO? COMPARE AND CONTRAST THE USE OF MIDI AND DIGITIZED SOUND IN MULTIMEDIA PRODUCTION
- EXPLAIN VARIOUS CONSIDERATIONS INVOLVED IN RECORDING AND EDITING A DIGITAL AUDIO.
- SHORT NOTE ON – IMAGE FILE FORMATS
- SHORT NOTE ON – MPEG STANDARDS
- DESCRIBE IN SHORT THE VIDEO OBJECT REPRESENTATION AND ENCODING LAYER OF MPEG.
- EXPLAIN IN DETAIL ANALOG DISPLAY STANDARD AND DIGITAL DISPLAY STANDARDS
- \*\*DISCUSS VIDEO RECORDING AND TAPE FORMATS IN DETAIL\*\*
- SHORT NOTES – JPEG AND GIF
- Compare and contrast jpeg and mpeg, how would motion jpeg differ from mpeg.

## UNIT 4. COMPRESSION AND DECOMPRESSION TECHNIQUES

- GIVEN A STRING, ABRACADABRA. GENERATE HUFFMAN CODE TREE? SHOW WEIGHT ORDER AND HOW MANY BITS ARE REQUIRED TO TRANSMIT THE COMPLETE STRING ABRACADABRA.
- GENERATE HUFFMAN TREE FOR THE FOLLOWING ALPHABETS:

M	N	O	P	Q	R	S	T
0.22	0.28	0.23	0.26	0.24	0.27	0.25	0.57





CALCULATE THE TOTAL NUMBER OF BITS REQUIRED TO TRANSFER THESE APLHABETS.

- CONSTRUCT HUFFMAN TREE FOR THE FOLLOWING FIVE LETTERS:- ABCDE WHICH ARE LISTED IN DECREASING ORDER OF FREQUENCY OF USE

SYMBOL	FREQUENCY
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A	24
---	----

B	12
---	----

C	10
---	----

D	8
---	---

E	8
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CALCULATE THE TOTAL NUMBER OF BITS REQUIRED TO TRANSFER THESE ALPHABETS.

- GIVEN A STRING XXXXYZZW. GENERATE HUFFMAN CODE TREE. SHOW WEIGHT ORDER AND HOW MANY BITS ARE REQUIRED TO TRANSMIT THE COMPLETE STRING XXXXYZZW.
- **\*\*WHAT IS COMPRESSION? EXPLAIN JPEG COMPRESSION PROCESS IN DETAIL.\*\***
- **\*\* WHAT IS COMPRESSION? DISTINGUISH BETWEEN LOSSY AND LOSSLESS COMPRESSION TECHNIQUES.\*\***
- **\*\*What is compression? Explain various steps involved in mpeg audio and video compression process.\*\***
- SHORT NOTE ON – JPEG
- **\*\*SHORT NOTE ON – ENTROPY ENCODING\*\*** run length
- Explain briefly the video file formats.

## UNIT 5. STORAGE AND RETRIVAL TECHNOLOGIES

## UNIT 6. PLANNING AND COSTING

- WHAT DO YOU UNDERSTAND BY IDEA ANALYSIS? EXPLAIN THE PROCESS OF MAKING MULTIMEDIA
- **\*\*\*DIFFERENCIATE BETWEEN – ALPHA DEVELOPMENT AND BETA DEVELOPMENT\*\*\***
- WHAT IS PRETESTING? OUTLINE THE ESSENTIAL CHARACTERISTICS OF ALPHA DEVELOPMENT.





- Discuss the important role of planning and costing in multimedia.

## **EXTRA QUESTIONS**

- A VIDEO CAN HAVE DURATION (T) OF 1 HOUR, A FRAME SIZE OF 640 X 480 AT A COLOR DEPT OF 24 BITS AND A FRAME RATE OF 25 FPS. CALCULATE THE VIDEO SIZE?
- EXPLAIN IN DETAIL BITMAP IMAGES AND VETOR DRAWING IMAGES? DIFFERENTIATE BETWEEN BITMAPS AND VECTOR DRAWN OBJECTS.
- DIFFERENTIATE BETWEEN- BIT MAPPED GRAPHIS AND VECCTOR GRAPHICS.
- \*\*\*\*EXPLAIN MULTIMEDIA AUTHORIZING TOOLS AND ITS DIFFERENT TYPES IN DETAILS?\*\*\*\*
- WHAT ARE THE DIFFERENT TYPES OF MULTIMEDIA AUTHORIZING TOOLS? DISCUSS THE DIFFERENCE BETWEEN CARD BASED AND TIME BASE AUTHORIZING TOOL WITH THE HELP OF SUITABLE EXAMPLE.
- DESCRIBE ANY TWO METHODS FOR DELIVERING A MULTIMEDIA PROJECT? DISCUSS THE BENEFITS AND DRAWBACKS OF EACH METHOD.
- \*\* LIST AND DISCUSS VARIOUS STAGES OF MAKING MULTIMEDIA PROJECT WITH DIAGRAM.\*\*
- \*\*EXPLAIN THE PROCESS AND ELEMENTS OF A MULTIMEDIA PROJECT PROPOSAL \*\*
- LIST ALL THE PRIMARY TASK THAT GO INTO PRODUCING A MULTIMEDIA PROJECT. PLACE THESE STEPS IN LOGICAL ORDER. COMMENT ON THESE STEPS WHETHER THEY ARE CRITICAL TO THE TIME LINE
- SHORT NOTE ON – MULTIMEDIA CONFERENCING
- \*\*\*SHORT NOTE ON – HOT SPOTS, HYPERLINKS AND BUTTONS\*\*\*





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- WHAT ARE HOT SPOTS? EXPLAIN HOW HOT SPOTS WEB PAGES IMPROVES THE PRESENTATION AND ACCESS TO MULTIMEDIA CONTENTS.
- LIST AND DESCRIBE THE THREE DIFFERENT TYPES OF AUTHORIZING SYSTEM AND DISCUSS THE ADVANTAGES OF EACH ONE.
- \*\*SHORT NOTE ON – STORYBOARD \*\*
- \*\*SHORT NOTE ON – CBT \*\*
- What is CBT? Explain the uses of multimedia in CBT.
- \*\*SHORT NOTES ON – HYPERMEDIA\*\*
- DIFFERENTIATE BETWEEN – HYPERTEXT AND HYPERMEDIA
- 
- SHORT NOTE ON – OPTIMIZING VIDEO FILES FOR CD-ROM
- WHAT IS THE IMPORTANCE OF GUP IN MULTIMEDIA PROJECT? EXPLAIN THE GOLDEN RULES OF GUP IN DETAIL
- SHORT NOTES- INTERACTIVE MULTIMEDIA
- SHORT NOTE ON- COMPACT DISK TECHNOLOGY
- SHORT NOTE ON – AUDIO INTERFACE
- SHORT NOTE ON - VIDEO CONFERENCING
- SHORT NOTE ON – digital sound sampling
- SHORT NOTE ON – interlacing scanning



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