

Examination - 6th Semester , IMCA , 2020

Subject - Multimedia Applications

Paper - 6.2

Full Mark – 35

Time – 1 Hour

(Answer Any Seven Questions. Each question carries five marks)

1. Define the term digital image. What are the different phases of image processing ? State each one in brief .
2. State JPEG Algorithm .
3. Define the term Multimedia. What are the different applications of multimedia ? State each one in brief .
4. Define the term Entropy Encoding. State any one entropy encoding algorithm .
5. Define the term image compression . What are the different types of image compression techniques are used in image processing ? State each one in brief .
6. If you are given an image with aspect ratio of 6:2 of an image of pixel resolution of 480000 pixels given the image is an gray scale image Then Calculate the size of the image .
7. A file contains the following characters with the frequencies as shown. If Huffman Coding is used for data compression, Then determine- Huffman Code for each character

Characters	Frequencies
A	10
E	15
I	12
O	3
U	4
S	13
T	1

8. Draw the Gantt Chart of the following processes using Least Slack Time Scheduling Algorithm :

Process	Capacity	Deadline	Period
P1	3	7	20
P2	2	4	5
P3	2	8	10

9. Draw the Gantt Chart of the following processes using Deadline Monotonic Scheduling Algorithm :

Process	Capacity	Deadline	Period
P1	3	6	15
P2	1	4	5
P3	2	7	10

10. Draw the Gantt Chart of the following processes using Rate Monotonic Scheduling Algorithm :

Process	Capacity	Period
P1	4	20
P2	2	5
P3	2	10