Level: Bachelor

Programme: BE/SE

Course: : Multimedia System

Year : 2022

Full Marks : 100

Pass Mark : 45

Time : 3 hrs

*Candidates are required to give their answers in their own words
as far as practicable.*

The figures in the margin indicate full marks.

Attempt all the questions.

1.
   a. What is Multimedia? Classify the media with example. 8
   b. Explain the data stream with transmission mode in multimedia. 7

2.
   a. What is MIDI? What features of MIDI make it suitable for multimedia applications? 8
   b. How can speech be generated from a digital device? Explain in detail. 7

3.
   a. What is image enhancement? Explain point processing and color image processing. 7
   b. Explain the image recognition steps with example. 8

4.
   a. Explain the basic types of Virtual reality (VR) and Basic steps of Animation. 7
   b. Explain Tele-services and the implementation of Conversation services in Multimedia communication. 8

   c. Construct the Huffman code for. 8

Gray level	0	1	2	3	4	5
No. of pixel	400	200	100	100	200	500

d. What is data compression? Why multimedia data should be compressed? Describe the JPEG compression with its different modes.   7

5.

    a. Explain the CD-ROM mode 1 and mode 2 with numerical example.   7

    b. What is MOS? Explain the deadline first (EDF) algorithm.   8

6. Write short notes(2x5)

    a. multimedia communication system

    b. Hypermedia

    c. ODA and SGML document