2020/EVEN/SEM/BVOC–GE–601/276

TDC Even Semester Exam., 2020

B. Voc
(Information Technology)

(6th Semester)

Course No. : BVOC–GE–601

(Multimedia)

Full Marks : 70
Pass Marks : 28

Time : 3 hours

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

Answer *any* **five** questions

UNIT—I

1. *(a)* Define multimedia. Briefly explain the main properties of multimedia system. 8

   (b) Explain different classifications of media. 6

2. *(a)* Describe different traditional data stream characteristics. 6

(*Turn Over*)

(2)

(b) What are the important characteristics of continuous media?   6

(c) Define *(i)* frequency and *(ii)* amplitude.   2

UNIT—II

3. What is image recognition? Explain different steps of image recognition.   14

4. (a) Explain three aspects of video signal representation.   6

(b) Define computer-based animation. What are different stages of computer-based animation?   8

UNIT—III

5. (a) What do you mean by compression? Describe the steps involved in data compression.   8

(b) Briefly explain the following :   6
   (i) Source coding
   (ii) Entropy coding

6. (a) Explain the steps of JPEG image compression.   10

(b) Define the following :   4
   (i) Digital system
   (ii) Hybrid system

(3)

UNIT—IV

7. (a) Define multimedia operating system.   4

(b) Explain the following scheduling algorithm :   10
   (i) Earliest deadline first algorithm
   (ii) Rate monotonic scheduling

8. (a) Explain the processor utilization of the rate monotonic algorithm.   8

(b) Define *(i)* ARTS and *(ii)* YARTOS.   6

UNIT—V

9. (a) What do you mean by synchronization? Briefly explain basic synchronization issues.   8

(b) Distinguish between Intra-object and Inter-object synchronization.   6

10. (a) Explain synchronization reference model.   10

(b) Write a short note on lip synchronization requirements.   4

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