**2023/TDC(CBCS)/EVEN/SEM/
BVOCGE–601T/385**

TDC (CBCS) Even Semester Exam., 2023

B.VOC (Information Technology)

(6th Semester)

Course No. : BVOCGE–601T

(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

1. *(a)* What is multimedia? Briefly explain the
main properties of multimedia system. 8

   (b) Describe the important characteristics
   of continuous media. 6

2. *(a)* Write a short note on MIDI messages. 6

   (b) Briefly describe the different components
   of MIDI device. 8

(Turn Over)

(2)

3. (a) Discuss image transmission in brief. 6

(b) Discuss different aspects of video signal representation in multimedia system. 8

4. (a) Briefly explain image synthesis. 6

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

5. (a) Write short notes on the following : 5+5=10

(i) H.261

(ii) MPEG

(b) Briefly explain communication architecture. 4

6. (a) Define multimedia workstation. What are the main components of multimedia workstation? 2+8=10

(b) Distinguish between digital system and hybrid system. 4

7. (a) Define multimedia operating system. Give example. 4

(b) Describe rate monotonic algorithm in brief. Also explain the processor utilization of rate monotonic algorithm. 10

(3)

8. (a) Define process management. Write down the different states of process management. 8

(b) Explain preemptive vs. non-preemptive task scheduling. 6

9. (a) What do you mean by synchronization? Explain lip synchronization requirements in brief. 6

(b) Write a short note on synchronization reference model. 8

10. Write short notes on the following : 7+7=14

(a) Axes-based synchronization specification

(b) Event-based synchronization specification

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