

**2022/TDC (CBCS)/EVEN/SEM/  
BVOCGEC-601T/373**

**TDC (CBCS) Even Semester Exam., 2022**

**B.VOC (Information Technology)**

**( 6th Semester )**

**Course No. : BVOCGEC-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) Explain the following concepts : 4+4=8**

**(i) Time-dependent sound concatenation**

**(ii) Frequency-dependent sound concatenation**

**(b) Write short notes on the following : 3+3=6**

**(i) Synchronous transmission mode**

**(ii) Asynchronous transmission mode**

2. (a) Describe the different characteristics of traditional data stream. 10
- (b) Define frequency. What is sampling rate? 2+2=4
3. What is image recognition? Explain the different steps of image recognition. 14
4. (a) Discuss digital image representation in brief. 6
- (b) Write short notes on the following : 4+4=8
- (i) Captured image format
- (ii) Stored image format
5. (a) What is data compression? Briefly explain the steps of data compression in multimedia system. 10
- (b) What is communication architecture? Explain briefly. 4
6. Discuss JPEG image compression process. 14
7. (a) What do you mean by multimedia operating system? Explain traditional real-time scheduling. 3+5=8
- (b) Define (i) ARTS and (ii) YARTOS. 3+3=6

8. (a) What is resource management? Explain different phases of resource management. 8
- (b) Explain the earliest deadline first (EDF) scheduling algorithm. 6
9. (a) What is synchronization? Explain basic synchronization issues. 8
- (b) Distinguish between intra-object and inter-object synchronizations. 6
10. Write short notes on the following : 7+7=14
- (a) Live synchronization
- (b) Synthetic synchronization

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