

[3 hours]

[Total Marks: 80]

- NB : 1) **Question 1 is compulsory.**  
 2) Attempt any **three** questions from the **remaining** questions.  
 3) Draw neat diagrams wherever necessary  
 4) **Assume** suitable data wherever applicable.

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|-----|---|--|----|
| Q1. | a | Explain virtual reality design   | 5  |
|     | b | Explain classification of MIDI messages  | 5  |
|     | c | Compare RIFF and TIFF file formats   | 5  |
|     | d | Explain applications of multimedia for entertainment, education and health science?                | 5  |
| Q2. | a | What benefits are offered by compression schemes in designing multimedia systems.                  | 10 |
|     | b | Explain different architecture for content organization in multimedia databases                    | 10 |
| Q3. | a | Explain different classes of databases used in multimedia  | 10 |
|     | b | Explain the design issues for multimedia authoring systems.  | 10 |
| Q4. | a | Explain components of multimedia systems.  | 10 |
|     | b | How does workflow design for a departmental system differ from that for an enterprise-wide system. | 10 |
| Q5  | a | Explain hypermedia application design considerations.  | 10 |
|     | b | Explain components of a distributed multimedia system.   | 10 |
| Q6. | a | Explain multiserver network topologies   | 10 |
|     | b | Explain technology assessment for developing a business information model.                         | 10 |

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