

[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 |
