

**Time : Three Hours**



**Max. Marks : 80**

Notes :

1. All questions carry marks as indicated.
2. Solve Question 1 OR Questions No. 2.
3. Solve Question 3 OR Questions No. 4.
4. Solve Question 5 OR Questions No. 6.
5. Solve Question 7 OR Questions No. 8.
6. Solve Question 9 OR Questions No. 10.
7. Solve Question 11 OR Questions No. 12.
8. Due credit will be given to neatness and adequate dimensions.
9. Illustrate your answers whenever necessary with the help of neat sketches.

- |    |    |  |   |
|----|----|--|---|
| 1. | a) | Explain multimedia workstation Architecture in detail. | 7 |
|    | b) | Explain the application areas of multimedia.           | 7 |

**OR**

- |    |    |  |   |
|----|----|--|---|
| 2. | a) | Write a short notes on :   | 8 |
|    | 1) | HDTV and UDTV.   |   |
|    | 2) | Holography.  |   |
|    | 3) | 3D Technologies.   |   |
|    | 4) | Virtual Reality.   |   |
|    | b) | Explain OCR software with its format.                                    | 6 |
| 3. | a) | Which platforms are used for development of multimedia project. Explain. | 7 |
|    | b) | Explain how Macintosh & windows operating system used for multimedia.    | 6 |

**OR**

- |    |    |   |   |
|----|----|---|---|
| 4. | a) | Write a short notes on.                                       | 8 |
|    | 1) | Time based authoring Tool.                                    |   |
|    | 2) | OCR software.   |   |
|    | 3) | Painting and drawing Tool.                                    |   |
|    | 4) | Movie editors.  |   |
|    | b) | What are different type of authoring tools? Explain.          | 5 |
| 5. | a) | Give advantages and disadvantages of MIDI over digital Audio. | 5 |
|    | b) | What is dithering. Explain with example.                      | 5 |

c) How to set sound for mobile. Write down steps.

3

**OR**

6. a) Write a short note on **any two**.

8

1) Animation Techniques.

2) MM building block video.

3) Principle of Animation.

b) Explain Hypertext and Hypermedia with example.

5

7. a) What is need of data compression. Explain in detail General data compression scheme.

7

b) What are requirement for full motion video compression. Explain.

6

**OR**

8. a) What is fractal compression? Give its advantage and disadvantages.

7

b) Explain MPEG, video compression technique.

6

9. a) Explain multimedia storage and Retrieval process.

7

b) Explain how transaction management system work for multimedia systems.

6

**OR**

10. a) Explain multimedia skill required for project development.

6

b) Explain the different file format for sound & images.

7

11. a) Explain the role of MIME in detail.

7

b) Write a short note on GIF89a-Video for the web.

7

**OR**

12. a) Write a short note on.

8

1) Multimedia on web.

2) Copyrights in MM.

b) What are different bandwidth bottleneck? Explain.

6

\*\*\*\*\*