



M.Sc. (Computer Science)

Multimedia Technologies

Unit :- 1

1. Give overview of multimedia software tools. 8
2. Explain different types of video signals in multimedia techniques. 8
3. Explain different file format used in multimedia. 8
- 4.State and explain any four multimedia software tools.
5. Explain digitization of sound in detail. 8
- 6.What is GIF File? Explain its format. 8
7. Explain with example multimedia and hypermedia in detail.
- 8.Explain in detail quantization and transmission of audio. 8
9. What is multimedia? explain its features.8
10. How image data is represented? Explain different image formats. 8
11. Explain the concept of digital video. Describe different types of video signals.
12. Explain quantization and transmission of audio.8

Unit :- 2

1.Explain:

(i) Exception

(ii) Interface

2.What is action script? Explain object oriented action script. 10

3.Write notes on: 10

(i) Action Script class

(ii) Action Script subclass.

4. Explain in detail the contents of the class body. 10

5.Explain the features of Action Script. 8

6.Explain complex data types supported by core classes in Action Script, each with an example

7. Explain compile time and runtime type checking with an example. 8

8. What is an interface? Explain its use with an example. 8

9.Write short notes on:

(i) abstraction

(ii) inheritance8

10. Describe different datatypes and type checking used in Action Script with example. 8

11.What is Action Script? Explain different features of Action Script. 8

12. Write a note on 'Packages in Action Script II'. 8

Unit :- 3

1. Explain OOP application framework in detail. 8
2. Explain any one lossless compression algorithm in detail. 8
3. Explain Wavelet-Based Coding lossy compression.
4. Explain the process of quantization in multimedia. 8
5. Which components are used with Action Script for Movie Clip subclasses? Explain in brief.
6. Explain variable length coding algorithm. 8
7. Write notes on:
 - (a) Wavelet Based Coding
 - (b) Quantization. 8
8. Explain Embedded zerotree of wavelet co-efficient set partitioning in hierarchical trees (SPIHT).sion algorithm in detail. 8
9. What is Wavelet-Based and Transform coding ? Explain. 10
10. Explain Embedded zero tree in hierarchical trees. 10
11. What is multimedia data compression? Explain lossless compression algorithm.
12. Explain Application framework components with Action Script Movie Clip subclass. 10

Unit :- 4

1. Explain how video compression is developed based on motion compensation. 10
2. What is multimedia network ? Describe transforming multimedia over IP. 10
3. Explain different Basic Audio compression techniques. 10
4. Write notes on :
 - (i) MPEG –4
 - (ii) MOD. 10
5. Explain linear search and hierarchical search for motion vectors. 8
6. Write a note on issues of buffer management. 8
7. Explain the parameters on which the quality of multimedia transmission depends. 8
8. Describe in brief DMIF in MPEG-4. 8
9. Write note on search for motion vectors. 8
10. Explain transport of MPEG-4 in brief. 8
11. Describe different multimedia network application. 8
12. How quality of Multimedia Data transmission is maintained?