



## M.Sc. III Semester Degree Examination, April/May - 2024

### COMPUTER SCIENCE

#### Multimedia and Animation

#### (NEP)

Time : 3 Hours

Maximum Marks : 70

**Note** : Answer **any five** of the following questions with Question **No.1 Compulsory**, each question carries **equal** marks.

1. (a) Explain the concepts of Network Quality of Service (QoS) and Application Quality of service (QoS) within the context of multimedia. **7**  
(b) Give an overview of the fundamental principles guiding the process of digitization, along with detailed explanations for each principle. **7**
2. (a) Compress the given text using Huffman coding. **7**  
A B B C D B C C D A A B B E E E B E A B  
(b) Explain LZW Encoding with an example. **7**
3. (a) Write a note on ADPCM. **7**  
(b) Explain the steps involved in compression of audio to MPEG. **7**
4. (a) List out and explain the different types of video compression standards. **7**  
(b) Write any five differences between H.261 and H.263 compression standards. **7**
5. (a) Explain how you manage the resources in multimedia. **7**  
(b) List out and explain the presentation requirements in multimedia. **7**
6. (a) Briefly explain run length coding in text compression. **7**  
(b) Give a comparative analysis between DPCM and ADPCM. **7**
7. (a) Explain why we use SMIL in multimedia. **7**  
(b) List out and explain process management techniques in multimedia. **7**
8. Write short notes on the following. **5+5+4**  
(a) LZW Decoding.  
(b) Video Compression Principles.  
(c) Code Excited LPC.

