

[Time: Three Hours]

[Total Marks:80]

Please check whether you have got the right question paper.

- NB:
1. Question No.1 is compulsory
 2. Attempt any 3 questions from the remaining 5 questions.
 3. Draw neat diagrams wherever necessary.



- Q 1 Differentiate 20
- a) Juke box and DVD
 - b) RTF and TIFF
 - c) Gray and color image
 - d) PCM and DPCM
- Q 2 a) Why the communication service quality should be good for multimedia streaming? Explain the role of RTP, RTSP, RTCP and RSVP 10
- b) For the phrase "Excellent Achievement" perform huffmann coding and generate the output. Apply decoding and convert it back to the text. Also find the redundancy in encoding. 10
- Q 3 a) What are the characteristics of sound waves? Illustrate the steps to digitize audio data. 10
- b) What is the job of header in a file? Give the header details for BMP file format. 10
- Q 4 a) What is Steganography? Explain any one method with an example. 10
- b) Discuss the different steps involved in MPEG compression technique. Also compare with H.261. 10
- Q 5 a) What parameters define the quality of an image? Discuss these parameters and their effect on the storage requirement. 10
- b) What are the multimedia security requirements? Discuss. 10
- Q 6 Write short note on(Any Two) 20
- a) Digital Signature
 - b) Authoring Systems
 - c) JPEG compression technique