ncA-sem-V-(CBSas) - Multimedia Technology - NOV-16.

QP CODE: 516702

## (3 Hours)

[Total Marks: 80]

10

15

N.B: (1) Question No.1 is compulsory.

- (2) Answer any four from remaining six questions.
- (a) What is Multimedia? How might multimedia be used to improve the 10 lives of its users? How might it influence users in negative ways? What might be its shortcomings?

(b) Construct a Huffman tree for the following five letters:-ABCDE

which are listed in decreasing order of frequency of use

Symbol Frequency

A 15

B 7

C 6

D 6

E 5

Calculate the total number of bits required to transfer these alphabets.

- (a) Explain types of graphics. Differentiate between vector image and 8 bitmap image.
  - (b) Discuss the importance of text and ways text can be leveraged in 7 multimedia presentations.
- 3. (a) Explain in details various principles of animation. 8
  - (b) What is MIDI audio? Compare and contrast the use of MIDI and 7 Digitized sound in multimedia production.
- 4. (a) List and describe the three different types of authoring systems and 8 discuss the advantages of each one.
  - (b) Discuss the differences among multimedia, interactive multimedia, 7 hypertext, and hypermedia.
- 5. (a) Discuss the stages of a multimedia project. Define the milestones that 8 mark the completion of the phase.
  - (b) Explain the process and elements of a multimedia project proposal. 7
- (a) Discuss different types of multimedia structures and how they might 8 be organized.
  - (b) What is Compression? Distinguish between lossy and lossless 7 compression techniques.
- Write short notes on following topics (Any Three)
  - (a) Animation techniques
  - (b) JPEG
  - (c) CBT
  - (d) Hot Spots, Hyperlinks and buttons