POKHARA UNIVERSITY

Semester: Spring

Year : 2021

Full Marks: 100

Pass Marks: 45 Time : 3 hrs.

2×5

Level: Bachelor

Programme: BE

7.

Write short notes on: (Any two)

a) Mediums of multimedia

b) Speech Generation

c) USB

Course: Multimedia Systems

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks. Attempt all the questions. a) Define multimedia and its elements. Where is the use of multimedia 7 1. technology and how does it help? b) What are MIDI devices? Write the function of the MIDI software. 8 2. a) What are the components of speech recognition? Explain with proper 7 diagram. b) What are the basic types of animation? Discuss the use of the YUV 8 model. 3. a) How can compression be achieved using JPEG compression? Explain in 8 detail with suitable block diagram. Explain the image recognition steps with the suitable diagram. 7 4. a) The probabilities of 7 sources are given A (0.25), B (0.25), C (0.125), 8 D(0.125), E (0.125), F(0.0625), G (0.0625). Determine the codeword of all the sources using Huffman coding and also calculate the entropy and average length. Explain CD-ROM/XA architecture and discuss about its FORM 1 and b) 7 FORM 2. a) What is Real Time System? Explain the real time scheduling system 8 5. models. b) Define Hypermedia. Differentiate between ODA and SGML 7 architecture. a) What is resource in terms of multimedia? What are the phases of the 8 6. resource reservation and management process? Explain different ways of reserving the resources. Discuss the concept of group communication architecture. Explain the 7 model for group communication architecture b) What are the basic types of animation? Discuss the use of the vilv