

POKHARA UNIVERSITY

Level: Bachelor
Programme: BE
Course: Multimedia System

Semester: Fall

Year : 2017
Full Marks: 100
Pass Marks: 45
Time : 3hrs.

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.

1. a) What do you mean by multimedia computing? Explain the main properties of multimedia. 2+6
b) Define MIDI Message. Discuss the relationship between MIDI and SMPTE timing standard. 2+5
2. a) List out the names and their functions of MIDI software. 7
b) Explain the different image transmission possibilities. 8
3. a) Define Run length Encoding. Construct the Huffman code for. 8

Gray Level	0	1	2	3	4	5	6	7
No.of Pixel	4500	1500	900	750	1200	1300	550	100

b) Explain the major types of computer video format with storage capacities of each. 7
4. a) Discuss the MPEG audio encoding technique with a suitable diagram. 7
b) Explain the CD-ROM (XA) form-1 and CD-ROM (XA) form-2 with block diagram. 8
5. a) Explain the working principle of CD-DA with suitable diagram. 7
b) What are the types of real-time OS? Explain its major characteristics. 8
6. a) Compare and contrast hypertext and hypermedia with suitable examples. 8
b) Explain the Group Communication Architecture with examples. 7
7. Write short notes on: (**Any two**) 2×5
 - a) Animation Language
 - b) JPEG
 - c) Xpress Transport Protocol (XTP)