

POKHARA UNIVERSITY

Level: Bachelor
Programme: BE
Course: Multimedia System

Semester: Spring

Year : 2013
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) Define multimedia. Explain the different criteria that are used to classify media. 8
b) Explain data stream characteristics for continuous media with practical examples. 7
 2. a) Define the term speech. Explain the Time-dependent and Frequency-dependent Sound Concatenation. 8
b) Write down the steps of Image Recognition. Explain each step with suitable diagram. 7
 3. a) Define source coding. Construct the Huffman code for. 8

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|--------------|------|------|-----|-----|------|-----|-----|-----|
| Gray Level | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| No. of pixel | 5320 | 1000 | 500 | 525 | 1236 | 965 | 856 | 128 |

b) Explain various television broadcasting standard formats. 7
 4. a) Why we need to compress the data? Explain the major steps for data compression. 8
b) Explain the working principle of CD_WO with suitable diagram. 7
 5. a) Explain the differences between CD-ROM mode-1 and CD-Rom mode 2 with appropriate diagram. 8
b) Define Deadline in terms of Multimedia Operating System. What is real time system? Briefly explain the properties of real time system. 7
 6. a) Define hypermedia. What are the different layers of hypertext system architecture? 8
b) Differentiate between SGML and ODA document architecture. 7
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7. Write short notes on: (Any two) 2×5
 - a) Animation Languages
 - b) DVI
 - c) MPEG.