POKHARA UNIVERSITY

Level: Bachelor   Semester: Fall   Year   : 2014
Programme: BE   Full Marks: 100
Course: Multimedia System   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 is Multimedia? Explain global structure of multimedia system.   8
    b) What are the four MIDI reception modes? Explain.   7
2. a) Define the term speech. Explain the components of speech recognition   7
        and understanding.
    b) Explain the Image recognition steps. Draw necessary figure.   8
3. a) What is run length coding? Construct the Huffman code for.   8

Gray Level	0	1	2	3	4	5	6	7
No.of Pixel	5000	1000	500	530	1250	950	860	130

    b) Explain about JPEG Compression Techniques.   7
4. a) What are the differences between CD-ROM (XA) form-1 and CD-   8
        ROM (XA) from-2. Illustrate above with a block diagram.
    b) Explain the working principle of CD-WORM.   7
5. a) What are the types of real time OS? Explain its major characteristics.   8
        Illustrate why RTOS id important in context of multimedia.
    b) Define hypermedia. What are the different layers of hypertext system   7
        architecture? Illustrate
6. a) Differentiate between SGML and ODA document architecture. Draw   8
        necessary diagrams.
    b) Define animation. Describe the characteristics of animation languages.   7
7. Write short notes on: **(Any two)**   2×5
    a) Computer Video Format
    b) H.261
    c) MHEG.