POKHARA UNIVERSITY

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) What is multimedia in terms of media combination and independence? Explain the building block of multimedia system with block diagram. — 8

b) Explain the need of MIDI standard. List the types of MIDI messages and explain them. — 7

2. a) What is speech? Describe the time dependent sound concatenation. — 7

b) How do you represent any image in a computer? Explain briefly about the fundamental steps in image processing. — 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	4800	1100	550	700	1200	900	500	250

b) Discuss briefly about the concept of animation and explain the types of animation languages. — 7

4. a) Explain JPEG compression steps in detail with block diagram. — 7

b) Explain the CD-ROM/XA Form 1 and Form 2 with block diagram. — 8

5. a) Explain the working principle of CD-DA. — 7

b) Define Real Time multimedia OS? Explain the characteristics of Real Time system. — 8

6. a) What is the need of hybrid system? Discuss about the hybrid system for communication architecture. — 8

b) Explain QoS layered model for multimedia communication system (MCS). — 7

7. Write short notes on: (**Any two**) — 2×5

a) HDTV

b) MPEG

c) RTP and XTP