

# POKHARA UNIVERSITY

Level: Bachelor  
Programme: BE  
Course: Multimedia Systems

Semester – Fall

Year : 2011  
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. Explain the various image recognition steps. 5
  - b. What is a speech recognition system? Mention the features of speaker independent recognition system? 5
  - c. What is a medium? List the different types of medium. 5
2.
  - a. What are the various methods of controlling animation? Explain briefly. 7
  - b. Discuss about the visual aspect of a video signal. 5
  - c. What is clustered –dot ordered dithering? 3
3.
  - a. Describe the Huffman encoding process with an example. 5
  - b. Point out why H. 261 px64 uses limited motion search. 2
  - c. Explain the Lossy Sequential DCT-based mode of JPEG after the input image has been prepared for compression. 8
4.
  - a. Explain about the formats of CD-ROM Extended Architecture. Illustrate with the appropriate block layouts. 8
  - b. Explain how error handling is done in CD-DA. 5
  - c. What is the role of Video RAM in the video processor in DVI still-image processing? 2
5.
  - a. Define real time systems. Explain the characteristics of real time OS. 7
  - b. Discuss about the Hybrid systems for communication architecture. How does it differ from Digital systems? 8
6.
  - a. Define hypertext and hyper media with example. Differentiate between ODA and MHEG with suitable block diagram. 8
  - b. Mention and briefly describe the different layers of hypertext system architecture. 4
  - c. What is the significance of a MIDI message? List the types of MIDI messages. 3
7. Write short notes on **any two**: 2×5
  - a. SGML
  - b. Eight to fourteen modulation
  - c. MPEG audio encoding