

POKHARA UNIVERSITY

Level: Bachelor
Programme: BE
Course: Multimedia Systems

Semester: Spring

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) Explain the global structure of multimedia system. 7
b) Explain different categories of MIDI software. 8
2. a) How do you define an image? Explain the various application areas of image processing. 8
b) Explain the various color encoding approaches for video transmission. 7
3. a) What do you understand by the term data compression? Write its advantages in terms of multimedia computing. Differentiate between lossless and lossy compression techniques. 7
b) Explain the purpose of the different types of frames used by MPEG compression technique. 8
4. a) Explain the working principle of the Compact Disk – Magneto Optical (CD-MO). 8
b) What is a resource in terms of multimedia? What are the phases of the resource reservation and management process? Explain different ways of reserving the resources. 7
5. a) With suitable examples explain the SCAN-EDF and Group Sweeping Disk Scheduling Algorithms. 8
b) Explain H.261 (px64) method of compression in detail. 7
6. a) What do you understand by the term QoS? Explain the various QoS parameters. 8
b) Define hypermedia. What are the different layers of hypertext system architecture? Explain. 7
7. Write short notes on: (**Any two**) 2×5
 - a) Document Architecture
 - b) Transport Sub system
 - c) Form 1 and Form 2 formats of CD-ROM/XA