

# POKHARA UNIVERSITY

Level: Bachelor  
Programme: BE  
Course: Multimedia System

Semester: Spring

Year : 2015  
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 different types of medium with reference to multimedia 8  
b) What are formants? Explain how speech can be generated by time-dependent sound concatenation. 7
2. a) What do you mean by digital image? Explain the different types of image formats.  
b) Explain the terms Continuity of Motion and Flicker. Discuss about digitalization of a motion video.  
a) What is run length coding? Construct the Huffman code for.

Gray Level	0	1	2	3	4	5	6	7
No. of Pixel	5000	900	750	500	1250	850	600	150

- b) What is MPEG? Explain the purpose of different types of frames used by MPEG compression technique.
4. a) Explain the working principle of CD-MO.  
b) Compare earliest deadline first and rate monotonic process management with respect to resource utilization and context switching.
5. a) Define hypermedia. Explain the different layers of Hypertext System Architecture.  
b) Explain QoS Layered Model for the multimedia communication system.
6. a) Explain the CD-ROM/XA Form 1 and Form 2 with block diagram.  
b) List and explain the image recognition steps. Draw necessary figures,

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where ever required.

2×5

7. Write short notes on: (**Any two**)  
a) DVI  
b) Types of Animation language  
c) RTP & XTP