

# POKHARA UNIVERSITY

Level: Bachelor

Semester: Fall

Year : 2021

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) Define Multimedia System. Explain different types of media used in multimedia. 7  
b) Explain the various steps involved in sound generation and recognition. 8
2. a) What are bitmap images? Explain the advantages and disadvantages of bitmap over vector images. 8  
b) What are the basic steps of animation? Describe the YUV model for video transmission. 7
3. a) How can compression be achieved using JPEG compression? Explain in detail with suitable block diagram. 8  
b) Why do we need Huffman Coding? Explain it with suitable example. 7
4. a) Mention the evolution of optical storage media in chronological order? Discuss about CIRC in short. 7  
b) What do you mean by Multimedia OS? Explain the design principles of QOS. 8
5. a) Define Hypermedia. Differentiate between ODA and SGML architecture. 7  
b) Discuss the communication support model for group communication architecture. 8
6. a) Explain Document and its architecture with suitable diagram. 7  
b) What is Real Time System? Explain the real time scheduling system models. 8
7. Write short notes on: (**Any two**) 2×5
  - a) Animation Languages
  - b) USB
  - c) Run Length coding