

B.C.A. 2<sup>nd</sup> Sem

Multimedia and its Applications

Subject Code: BCAP1-209

Paper ID:

(for office use)

Time allowed: 3 Hrs

Max Marks: 60

Important Instructions:

- All questions are compulsory
- Assume any missing data

**PART A (2 × 10)**

Q. 1. Short-Answer Questions:

- What is meant by multimedia authoring tools? Write the names of any two.
- Explain the various services provided by multimedia systems.
- What is streaming audio?
- Compare lossy and lossless compression.
- Distinguish between multimedia and hypermedia systems.
- Discuss luminance in video images.
- What are different types of color models?
- What is MPEG video format?
- Define sample rate.
- Write full form of RAID. What are its objectives?

**PART B (8 × 5)**

Q. 2. Discuss in detail the framework of multimedia systems. Also list the applications of multimedia systems.

OR

- Write the name of different image formats. Compare any two image file formats.
- What is MIDI? Explain briefly the different components of a MIDI system.

Q. 3. List the various image compressions formats and explain them in detail.

OR

Compare the different file formats used for images on the basis of following parameters: compression, portability, device independence, type of media supported, indexing/searching, accessibility, standardization.

Q. 4. What is multimedia streaming? Explain different media streaming protocols.

OR

- Write a short note on compact disk and its standards
- What are various multimedia standards for document interchange?

Q. 5. List and explain the various hardware devices used in multimedia systems.  
OR

- a) Discuss the different multimedia software development tools.
- b) What are the different type of storage media used in multimedia devices

Q. 6 Explain the various multimedia authoring tools in detail.  
OR

- a) Discuss in detail the different features of digital representation of sound.
- b) Discuss the different audio formats.