

End Semester Examinations - 2015-16 Even Semester - May 2016

14CS2030 Multimedia Systems and Design

Set A

Time : 3 hrs
Total Marks: 100

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1.
 - i. Discuss about multimedia system architecture with a neat diagram.(10)
 - ii. Explain any five elements of multimedia systems in detail(10)
 - OR**
 2.
 - i. Explain about Evolving Technologies of Multimedia Systems(10)
 - ii. How can you represent Multimedia Data Interface Standard?(10)
 3.
 - i. Discuss the following binary image compression schemes:(10)
 - a. Packbits encoding.
 - b. CCITT group 3 1D compression.
 - c. CCITT group 3 2D compression
 - ii. Explain with a neat diagram, the compression and decompression methodologies used in JPEG.(10)
 - OR**
 4.
 - i. Write short notes on the following compression standards.
 - a. Non Lossy compression for images.
 - b. Lossy compression for photographs and video.
 5.
 - i. Write short notes on the following animation techniques.(8)
 - a. Delta frame animation.
 - b. Palette animation.
 - c. Toggling between image frames.
 - d. Rotating through several image frames.
 - ii. Explain about the following:
 - a. Charge Coupled Device (CCD).(5)
 - b. Pen Input device(7)
 - OR**
 6. Describe the principle and operations of the following input and output systems.
 - a. Image scanner and video display systems (10)
 - b. Musical Instrument Digital Interface.(10)
 7.
 - i. Explain all the levels of RAID technology with a suitable example.
 - ii. Explain the following storage media and its different types
 - a. Optical Media.
 - b. Magnetic disk spanning

OR

8. i. What is meant by cache? State the metrics to evaluate the performance of it. Discuss the different approaches to maintain data consistency in cache briefly.(10)
- ii. Discuss the concept, performance and demerits of hierarchical storage management elaborately.(10)
9. i. Explain the application classes of multimedia. Write the types of multimedia systems.(10)
- ii. What is distributed multimedia systems? Explain its challenges and design issues.(10)

Wishing you All the Best
