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BCACAC 260

**Credit Based Fourth Semester B.C.A. Degree Examination,
April/May 2015
(New Syllabus) (2013-14 Batch Onwards)
COMPUTER GRAPHICS AND MULTIMEDIA**

Time : 3 Hours

Max. Marks : 80

Note : Answer **any ten** questions from **Part A** and **one full** question from **each** Unit in **Part B**.

PART – A

Shri Dharmaraja's Manjunatheshwara
College of Business Management Library
MANGALORE - 575 003

1. a) What are horizontal and vertical retrace ? (10×2=20)
- b) What are impact and non-impact printers ? Give example for each.
- c) What is the purpose of frame buffer ?
- d) Define translation and scaling.
- e) Write the purpose of homogeneous coordinate system.
- f) List any two character attributes.
- g) Define storyboarding.
- h) Why digital audio is called device independent ?
- i) What are palettes ? List any one common color palettes.
- j) What is 3-D animation ?
- k) What is morphing in animation ?
- l) What are chroma key technology in digital video editing ?

P.T.O.



PART – B

Unit – I

2. a) Explain the architecture of raster display system with neat diagram. (4+4+7)
b) Write a note on Graphics Software.
c) Derive mid-point algorithm to draw a circle.
3. a) Explain Track ball, Joystick, Space ball. (6+9)
b) Derive mid-point algorithm to draw an ellipse.

Unit – II

4. a) Prove that successive rotations is additive. (5+3+7)
b) Explain the different Text attributes.
c) Write and explain Cohen-Sutherland line clipping algorithm.
5. a) Explain window to viewport transformation with a suitable diagram. (5+4+6)
b) Explain the Pivot Point Rotation with an example.
c) Discuss various Reflection transformations with suitable diagrams.

Unit – III

6. a) List and explain the various application of multimedia in various fields. (5+5+5)
b) Write a note on bitmaps.
c) Write a note on MIDI audio.
7. a) Write a note on additive and subtractive colors. (5+5+5)
b) What are different methods for searching in hypermedia ?
c) List and explain the various sound editing operations.

Unit – IV

8. a) List and explain different stages of a multimedia project. (5+5+5)
b) Write a note on Shooting Platforms.
c) Write a note on MPEG.
9. a) List and explain different types of authoring tools for multimedia. (5+5+5)
b) Write a note on video compression (CODEC).
c) Discuss intangible elements needed to make good multimedia.