



UTTARAKHAND OPEN UNIVERSITY, HALDWANI (NAINITAL)
उत्तराखण्ड मुक्त विश्वविद्यालय, हल्द्वानी (नैनीताल)

BCA-11/BCA-16 3RD YEAR 5TH SEMESTER ASSIGNMENT

Last Date of Submission: 15/12/2016

Course Title: Interactive Computer Graphics

Course Code: BCA-17

Year: 2016-17

Maximum Marks: 30/40

Section 'A' contains 08 short answer type questions of 4/5 marks each. Learners are required to answer 4 questions only. Answers of short answer-type questions must be restricted to 250 words approximately.

1. What is computer animation? Discuss the application of computer animation.
2. Define the following terms:
 - i. Frames
 - ii. Key frames
 - iii. Frame rate
 - iv. Morphing
3. What are the different methods for text clipping?
4. What is 2D reflection? Discuss the x-axis and y-axis reflection.
5. What are the application areas of computer graphics?
6. What is GUI?
7. Differentiate between raster scan displays and random scan displays.
8. What are the advantages and disadvantages of Liquid Crystal Displays?

Section 'B' contains 04 long answer-type questions of 7/10 marks each. Learners are required to answer 02 questions only.

1. Describe the color models in computer graphics.
2. Explain briefly the flat screen displays.
3. Draw the architecture of a simple raster graphics system.
4. Write and compare the DDA algorithm and the Bresenham's line drawing algorithm.