



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

BCA 3RD YEAR 5TH SEMESTER ASSIGNMENT

Last Date of Submission: 15/01/2016

Course Title: Interactive Computer Graphics

Course Code: BCA-17

Year: 2015-16

Maximum Marks: 40

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

1. Difference between random and raster scan displays.
2. Define pixel and aspect ratio.
3. Difference between parallel and perspective projections.
4. Define image space and object space.
5. Define non-zero winding number rule with its significance.
6. Define Line Clipping and Text Clipping.
7. What are different principles of Animation?
8. Describe the different types of rotation position in 3-D.

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

1. What are the different application areas of Computer graphics?
2. Explain Bresenham's algorithm with example.
3. Discuss the following
 - i. 2-D transformations
 - ii. Point Clipping
 - iii. Morphing
4. Draw the architecture of a simple raster graphics system.