



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

MCA-II 3rd YEAR 5<sup>th</sup> SEMESTER ASSIGNMENT

*Last Date of Submission: 15 Jan., 2014*

**Course Title: Computer Graphics**

**Course Code: MCA-20**

**Year: 2013-14**

**Maximum Marks: 40 Marks**

Section 'A' contains 08 short answer type questions of 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. Explain use and applications of computer graphics.
2. Explain Two Dimensional Geometric Transformations .
3. What do you understand by Modeling and Coordinate Transformations?
4. Write Line Drawing Algorithm.
5. Explain the concept of Clipping line and Clipping polygon in two dimensional viewing.
6. Explain in brief the concept of Virtual Reality Environment.
7. Write down Raster method of transforming.
8. What are Windows and icons.

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

1. Write down the algorithm for Ellipse generation and parallel curve.
2. Explain the transformation between coordinated systems in detail.
3. Explain the concept of line and curve attributes.
4. What do you understand by three dimensional geomantic in detail?