Tribhuvan University Institute of Science and Technology

2071

Bachelor Level/ First Year/ First Semester/ Science Computer Science and Information Technology (CSc. 254) (Computer Graphics) Full Marks: 60 Pass Marks: 24

Candidates are required to give their answers in their own words as for as practicable. The figures in the margin indicate full marks.

Attempt all the questions.

- 1. Define a computer graphics and its applications.
- 2. Explain the scan conversion algorithms with example.
- 3. Explain the 2D and 3D transformations.
- 4. Explain the window to view port transformation with its applications.
- 5. Explain with algorithm of generating curves.
- 6. Set up a procedure for establishing polygon tables for any input set of data points defining an object.
- 7. Define algorithms for visible surface detection.
- 8. Define the following terms(any two)
 - a) Polygon Messes
 - b) 3D viewing
 - c) Boundary Representation
 - d) Sweep Representation
- 9. Explain the visible surface detection with an algorithms.
- 10. Explain the virtual reality and animation in detail.

OR

Explain the line scan algorithm with example.