

Council for Technical Education and Vocational Training  
**Office of the Controller of Examinations**  
Sanothimi, Bhaktapur  
**Regular/Back Exam-2077, Chaitra**

<b>Program:</b>	<b>Diploma in Computer Engineering</b>	<b>Full Marks: 40</b>
<b>Year/Part:</b>	<b>II/II (2018, 2013 New+Old)</b>	<b>Pass Marks: 16</b>
<b>Subject:</b>	<b>Computer Graphics</b>	<b>Time: 1.5 hrs</b>

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

**Attempt Any Eight questions.**

1. ✓ What is Computer Graphics? Explain Computer Aided Designing (CAD) and Computer Aided Manufacturing (CAM) with example. [1+4]
2. ✓ Write about the Raster and vector scan display technology. [2.5+2.5]
3. ✓ Explain about the DDA line drawing algorithm. [5]
4. ✓ Derive ellipse drawing algorithm. [5]
5. ✓ Define projection. Explain the types of projection with examples. [1+4]
6. ✓ Explain how 3-D objects are presented. Discuss about polygon table and polygon Surface. [2+3]
7. ✓ Explain the Surface detection technique in brief. [5]
8. ✓ What is Animation sequence? Explain Morphing technique. [2+3]
9. ✓ Write short notes on : (Any Two) [2x2.5=5]
  - a) ✓ CRT monitor
  - b) ✓ Application of GUI
  - c) ✓ 2-D reflection

**Good Luck !**