

Office of the Controller of Examinations

Sanothimi, Bhaktapur

Regular/Scholarship/Back Exam – 2082 Phagun/Chaitra

Program: Diploma in Information Technology/
Computer Engineering

Full Marks: 80

Year/Part: III/I (2022)

Pass Marks: 32

Subject: Computer Graphics

Time: 3 hrs.

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. Define computer graphics. Differentiate between CAD and CAM.
Explain the application of computer graphics in various sector. (2+4+4)
2. What is touch panel? Explain its types. Differentiate between Raster and vector display technology. (6+4)
3. Write a DDA line drawing algorithm with proper example. (10)
4. Define transformation. Explain 2 dimensional translation, scaling and rotation in detail. (2+8)
5. What do you mean by ambient model? Explain polygon surfaces and tables in detail. (2+8)
6. Define projection and explain its types. Explain object space method & image space method in detail. (6+4)
7. Explain different lighting model in detail. Define phong shading model in detail. (6+4)
8. Explain principles of web graphics design in detail. What are the different graphic file formats? Explain. (6+4)
9. Write short notes on: (any TWO) (2×5)
 - a) CRT monitor
 - b) Virtual reality
 - c) Gourand shading

Good Luck!