

GUJARAT TECHNOLOGICAL UNIVERSITY**BE- VIth SEMESTER-EXAMINATION – MAY- 2012****Subject code: 162206****Date: 22/05/2012****Subject Name: computer application in mining****Time: 10:30 am – 01:00 pm****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q.1 (a) List out the various input devices of computer. Explain digitizers and joy-stick. **07**

(b) What are output devices? Explain different types of printers. **07**

Q.2 (a) What is vector? Write a note on types of co-ordinate system. **07**

(b) What is computer graphic system? Write a note on various sub-systems of graphic system. **07**

OR

(b) Explain frame buffer. **07**

Q.3 (a) Write a note on scanners. **07**

(b) What are the sources of data and system collected by mining and processing operations? Add a note on database management system. **07**

OR

Q.3 (a) Write a note on plotters. **07**

(b) Explain types of schema maintained by the DBMS. **07**

Q.4 (a) What is CAD? Give the benefits of CAD. Add a note on constructive solid geometry in CAD. **07**

(b) Write a note on shearing transformation. **07**

OR

Q.4 (a) Explain different kinds of modeling in CAD. Add a note on boundary representation. **07**

(b) Write a note on reflection transformation. **07**

Q.5 (a) Explain geometric transformation. **07**

(b) Explain circle generation algorithm **07**

OR

Q.5 (a) Explain co-ordinate transformation **07**

(b) Explain Bresenham`s line algorithm. **07**
