

**GUJARAT TECHNOLOGICAL UNIVERSITY****SEMESTER- 6 EXAMINATION – WINTER 2012****Subject code: 162206****Date: 08/01/2013****Subject Name: Computer Application in Mining****Time:02:30 – 05:00****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) Explain pixels and frame buffers. **07**  
(b) Give the purposes and basic classes of transformation. **07**
- Q.2** (a) Explain co-ordinate free geometry. **07**  
(b) What is DBMS? Give the advantages and disadvantages of it. **07**
- OR**
- (b) Explain types of schema maintained by the DBMS. **07**
- Q.3** (a) Give the features of data scanning device. Explain image scanners. **07**  
(b) Write the notes on Light pens, joy sticks and track ball. **07**
- OR**
- Q.3** (a) Write a note on types of printers. **07**  
(b) Write a note on plotters and digitizers. **07**
- Q.4** (a) Write a short note on scaling transformation to resize of an object. **07**  
(b) Explain world co-ordinate system and user co-ordinate system used in AutoCad **07**
- OR**
- Q.4** (a) Explain shearing transformation **07**  
(b) Explain issues in data mining **07**
- Q.5** (a) Explain the properties of circles with references of circle generating algorithms. **07**  
(b) List out the different object creation commands. Explain the different co-ordinate system to draw a line object. **07**
- OR**
- Q.5** (a) Explain Bresenham's line algorithm. **07**  
(b) Explain the rotation to reposition two-dimensional objects. **07**

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