

GUJARAT TECHNOLOGICAL UNIVERSITY**B. E. Sem-III Remedial Examination May 2011****Subject Code: 132001****Subject Name: Industrial Drafting****Date: 28/05/2011****Total Marks: 70****Time: 10.30 am – 01.30 pm****Instructions:**

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

Q.1 (a) What are the standard sizes of drawing sheets? What are the standard procedures for folding of drawing sheets of standard sizes? **07**

(b) Why pencil should be rotated in fingers while drawing a long line? List out the essential information contained in a typical title block and a typical part list. **07**

Q.2 (a) What are the considerations, which govern the selection of views for an object? What are one view drawings? For what type of objects these can be used? **07**

(b) Sketch three views of a simple single hook type crane hook. Show sections at three different important locations across the length of above referred crane hook. **07**

OR

(b) Explain with help of simple sketches, the method of dimensioning a dovetail type slide and a dovetail type guide way. **07**

Q.3 (a) What are the conventional representation for indicating the sections of steel, wood, concrete, and glass. **07**

(b) Describe surface roughness average achievable by common production processes. **07**

OR

Q.3 (a) Define limits, fits and tolerances. Differentiate between hole basis system and shaft basis system for different fits. **07**

(b) Explain with the help of neat sketches of symbols, straightness, flatness, perpendicularity, cylindricity, and concentricity **07**

Q.4 (a) What are different types of threads? Where each type is used? **07**

(b) What is the difference between a set screw, a through bolt and a machine screw? **07**

OR

Q.4 (a) What are left handed threads and right handed threads. Sketch a turnbuckle and indicate the types of threads on it. **07**

(b) What is single start thread? What are multi start threads? Where these are used and why? **07**

Q.5 (a) Sketch orthographic views of a spigot and socket cottered joint for round shaft. **07**

(b) Sketch orthographic views of a gib and cotter joint for square rods. **07**

OR

Q.5 (a) Prepare neat sketches of the following: **07**
Hexagonal head screw, hexagonal head bolt, hexagonal check nut, split pin, castle nut, spring washer, and plain washer.

(b) Prepare neat sketches of the following types of foundation bolts: **07**
Lewis bolt, hoop bolt, rag bolt, and curved bolt.
