

# MASENO UNIVERSITY UNIVERSITY EXAMINATIONS 2013/2014

## FIRST YEAR FIRST SEMESTER EXAMINATIONS FOR THE DEGREE OF BACHELOR OF SCIENCE IN COMPUTER SCIENCE AND TECHNOLOGY

(MAIN CAMPUS)

SCS 107: ENGINEERING DRAWING

Date: 21" November, 2013

Time: 2.30 - 4.30 p.m.

### **INSTRUCTIONS:**

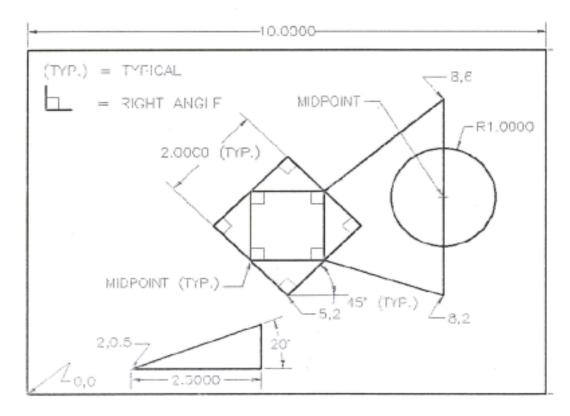
- SECTION A: Attempt Question ONE (1) which is COMPULSORY (30 marks).
- 2. SECTION B: Attempt any TWO questions (20 marks each).
- Start a new question on a new page.
- 4. MOBILE PHONES are PROHIBITED in the Examination room.
- 5. DO NOT WRITE on the question paper.

#### Answer all Questions

#### Question 1

In this question you will complete the drawing below that will test your knowledge of drawing accurately using different types of precision input and use of layers.

- Start at the bottom left corner. You will have to use a combination of absolute, relative, and polar co-ordinate input.
- Create 2 layers, one for text, red in color, and the graphics layer is blue in color, line weight= 0.3mm.
- Complete the question by drawing it accurately using the dimensions (in inches) as provided.
- If you make an error along the way, remember that you can use your ENDPOINT Osnap to begin where you left off.

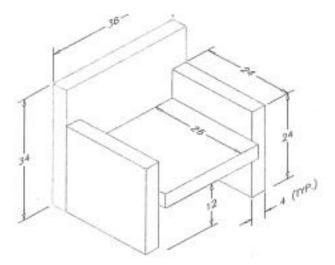


· Save your drawing as ANSWER 1in your folder.

(25 marks)

#### Question Two

 Use any 3D modeling scheme to create a model of a seat to the dimensions indicated on the figure below. Dimension your model accordingly.

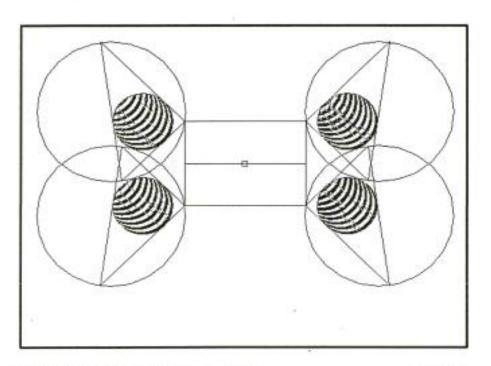


· Save your drawing as answer 2 in your folder.

(15 marks)

#### Question 3

- Starting with a right angled triangle, of sides 300 X 400 X 500, and a rectangle of dimensions 400 X 150 mm, reproduce the 2D model below.
- Use ANSI 137 to hatch.



· Save the drawing in your folder as answer 3.

(20 Marks)

#### Question 4

- Draw a right angled triangle dimensions 300x400x500. Extend one side of the triangle by 350mm.
- Circumscribe the triangle Inscribe a circle in the triangle Escribe a circle, diameter 200 at the extended side of the triangle.
- Show the radii of all the circles.
- Save your drawing as answer 4 in your folder.

(10 Marks)