Enrollment No: _____   Exam Seat No:_____

C.U.SHAH UNIVERSITY
Summer Examination-2017

Subject Name : Computer Aided Drawing

Subject Code : 4TE07CAD1   **Branch: B.Tech (Civil)**

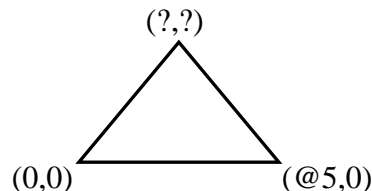**Semester : 7**   **Date : 29/03/2017**   **Time : 02:30 To 05:30**   **Marks : 70**

Instructions:
  (1) Use of Programmable calculator & any other electronic instrument is prohibited.
  (2) Instructions written on main answer book are strictly to be obeyed.
  (3) Draw neat diagrams and figures (if necessary) at right places.
  (4) Assume suitable data if needed.

Q-1   Attempt the following questions: **(14)**

  a) The full form of GUI is _____ .   1
  b) The short key F5 is for _____.   1
  c) What is the full-form of UCS _____.   1
  d) The command or shortkey for reading coordinates on screen is _____.   1
  e) In autocad _____ angle is measured clockwise.   1
  f) The missing coordinate for creating the drawing is _____. The figure below is   1
         an equilateral triangle.

                        (?,?)

                (0,0)   (@5,0)

  g) The AutoCAD was launched in the year _____.   1

  h) If the scale drawing is 1in=12ft then the area of a square drawn is _____.   1

  i)   You can control which face you are drawing on by using _____ short key   1
         in isometric mode.
  j) What does Regen command do in autocad.   1
  k) Configuration is _____ of viewports.   1
  l) The trim command can be used to provide sharp edged corners for a figure.   1
         (True/False)
  m) UNITS command is used to control the input and output in AutoCAD.   1
         (True/False)

n) What is the angle between two sides of a hexagon.   1

Attempt any four questions from Q-2 to Q-8

Q-2 **Attempt all questions**   **(14)**
a) Explain the uses of AutoCAD in Civil Engineering domain.   6
b) Draw a rectangle of sides 4m x 2m using absolute coordinate input options.   3
c) Write the command line to generate the following: 5
    1. A polygon of 8 sides having side length of 4 units
    2. A polyline of 10m length having angle of 60° between lines each of 5m.

Q-3 **Attempt all questions**   **(14)**
a) What are layers in autocad and how to apply in a drawing.   6
b) Explain how to do running dimensioning in autocad.   3
c) Write the command line to generate the following (draw neat sketch):   5
    1. A pyramid of base width 4m, top width of 2.5m and height of 4m.
    2. A cube of sides 4m.

Q-4 **Attempt all questions**   **(14)**
a) Explain how to create your own coordinate system in autocad.   6
b) How to write single line text and multi-line text in autocad.   3
c) Draw a neat sketch of isometric view of a house having only ground floor and floor area is 100sq.m. The wall thickness is 0.23m. The house has window openings of size 1.2m x 1.2m on East and West direction walls.   5

Q-5 **Attempt all questions**   **(14)**
a) Explain the following commands in detail with neat sketches: 6
    1. Hatch
    2. Move
    3. Fillet
b) Explain any four commands of AutoCAD 3D in detail.   8
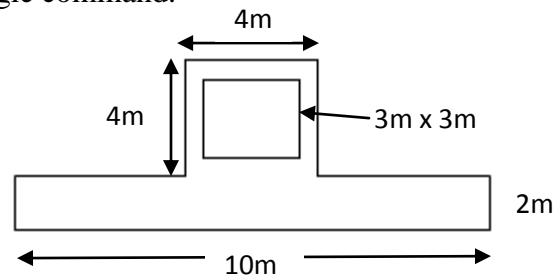
Q-6 **Attempt all questions**   **(14)**
a) What is a general arrangement drawing and why it is required? Draw G.A drawings for a bungalow having built up area of 200sq.yd (1 sq.yd = 0.836 sq.m).   9
b) Draw a detailed section drawing of the bungalow in the above question and mention how the section can be made using AutoCAD.   5

Q-7 **Attempt all questions**   **(14)**
a) Explain the following commands with suitable example: LINETYPE & LTSCALE.   6

b) Draw the following figure and explain the command sequence to generate the figure using rectangle command. 8

Q-8 Attempt all questions **(14)**

a) Enlist the tools used for manual drafting. Explain the tools used for drawing in autocad. 9

b) Draw a A3 size template (not to scale) and title block in your answer sheet and explain how it can be generated in AutoCAD. 5