S.B. Roll No. _____

ENGINEERING DRAWING-I

1st Exam/Comp/2655/Dec-2011

Duration: 3 Hrs.   Max. Marks: 100

Note : Attempt any five questions.

Section-A

Q1. a) Print the following sentence in upper case, single stroke, inclined at 75^0 in a height of 22mm with ratio 7:4 "GOD IS GREAT".   10

   b) Draw five different types of lines used in engineering giving their purpose.   10

Q.2 a) Show with sketches how the following are dimensional: Overall sizes, circles, holes equally spaced on PCD, Counter bored holes, and cylindrical parts.   5

   b) Give sketches to differentiate between:
   1) Size dimension and location dimension   7.5
   2) Aligned system and unidirectional system of dimensioning.   7.5

Q3.   On a map, a line 30cm represents a distance of 450 meters. Construct a diagonal scale showing divisions of 50 cm and capable of measuring 300 meters. On this scale show a distance of 167.5 meters.   20

Q4 a) Project points P lying 20mm above HP and 30mm in front of VP.   10

   b) A line AB 50mm long has its end A in HP. The line is parallel to VP and perpendicular to HP. If the line lies 30mm in front of VP, draw its projections.   10

Q5.   Fig-1 shows isometric view of an object. Draw its front view, top view and side view.   20

Q6 a) Show how conventional breaks are represented in the following: - Shafts, pipes, square angle channel sections   10

   b) Show how the following sections are represented: full section, offset sections, revolved sections, removed sections, half section.   10

Q7.   A square prison with sides 30mm and height 120mm rests centrally on a cylindrical block of 50mm diameter, 20mm thick. Draw isometric view of the assembly.   20

Q8 a) Fig 2 shows two views of an object draw its third view.   10

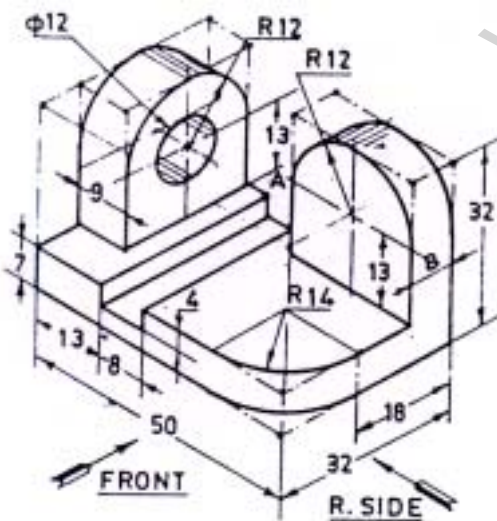   b) Fig 3 shows three views of an object with some missing lines and provide the missing lines and complete the views.   10
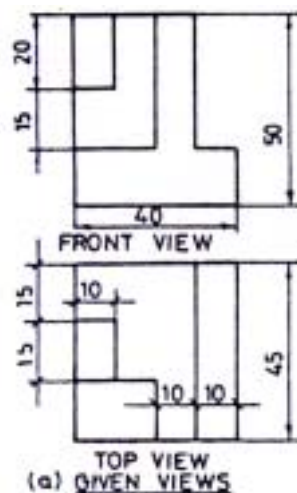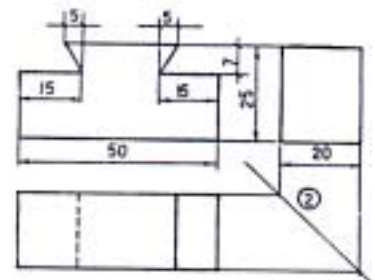

Fig. 1   *Fig. 2*   *Fig. 3*