SLIATE

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SRI LANKA INSTITUTE OF ADVANCED TECHNOLOGICAL EDUCATION

(Established in the Ministry of Higher Education, vide in Act No. 29 of 1995)

Higher National Diploma in Civil Engineering
Higher National Diploma in Quantity Surveying
1st year, First Semester Examination – 2017
ME1102/ QS 11072 - Engineering Drawing (B)

Instructions for Candidates:

Answer all questions   No. of questions: 03
You can use both sides of paper   No. of pages   : 02
10 marks are allowed for lettering, dimensions, cages etc.   Time   : 03 hours

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Q1)

    i.   Draw the circle that passing through three points of A, B and C which located as AB = 30 mm, BC = 20 mm and angle of ABC = 50°.

    ii.   Another 60 mm diameter circle is located in 100 mm distance from the center of the previous circle.

    iii.   Draw a common external tangent to both circles.

(25 marks)

Q2) Draw the following figure 01, to the scale of 1:1. All dimensions are in millimeters.
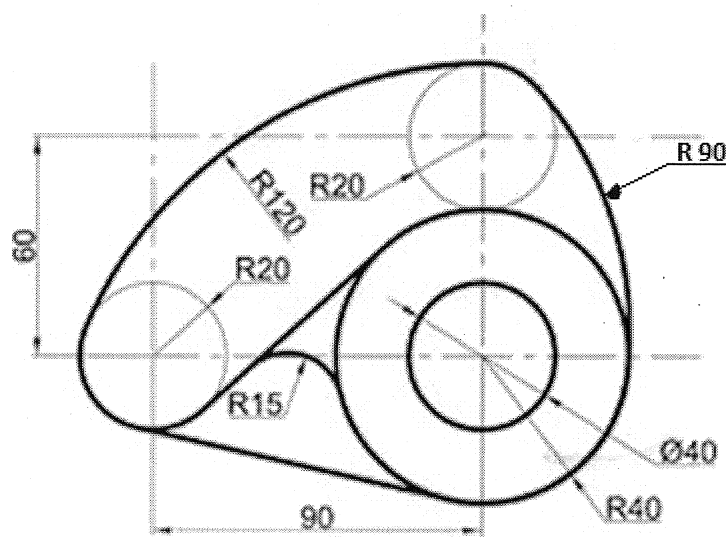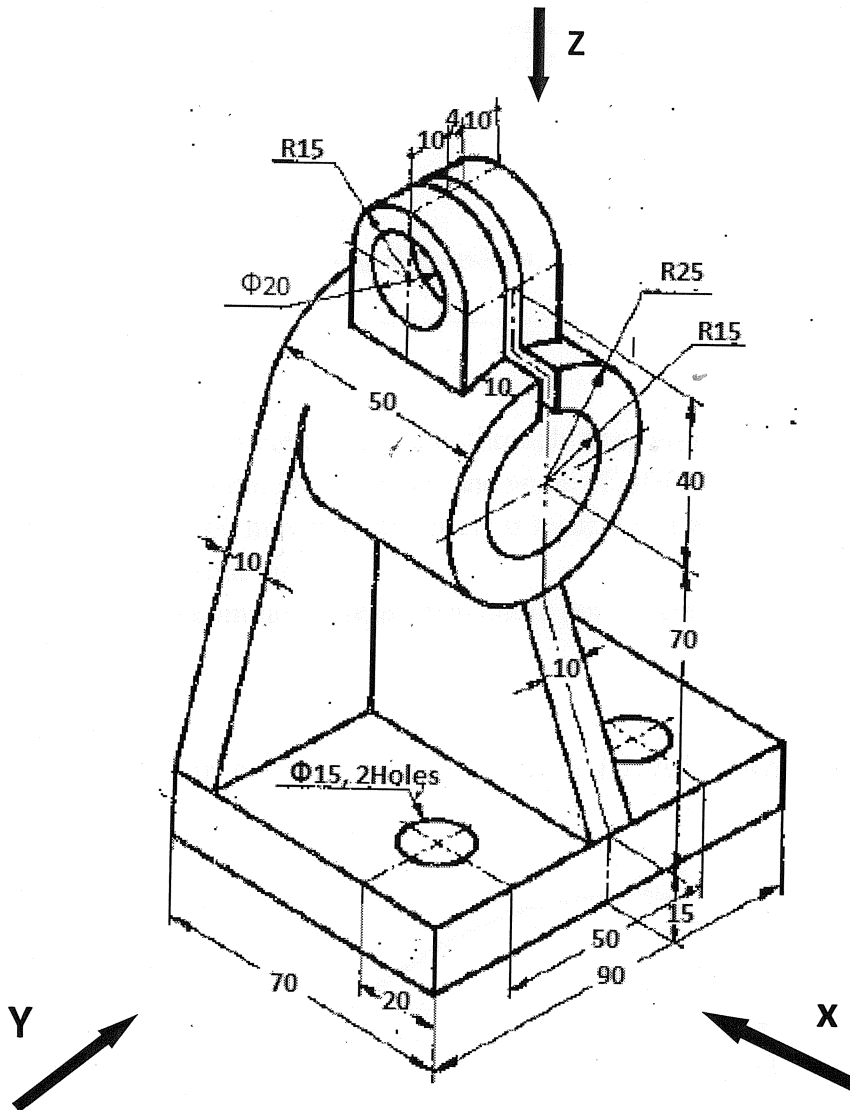

Figure 01

(30 marks)

Q3)   Following figure 02, shows the pictorial view of a solid object. Draw the following views into 1:1 scale in the first angle orthographic projection. (All dimensions are in millimeters)

  i.   Front view (Front elevation) – In the direction of arrow "X"
  ii. Side view (End elevation) – In the direction of arrow "Y"
  iii. Top view (Plan) – In the direction of arrow "Z"

(35 marks)

Figure 02