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FINAL
Examination Paper

(COVER PAGE)

Session	:	**April 2018**
Programme	:	Diploma in Mechanical Engineering (DMEN) Diploma in Electrical and Electronic Engineering (DEEI)
Course	:	**EGR1175/1185 : Engineering Drawing**
Date of Examination	:	July 27, 2018 (Friday)
Time	:	5:00 pm – 7:00 pm Reading Time : Nil
Duration	:	2 Hours
Special Instructions	:	

This paper consists of **SIX (6)** questions. Answer any **FOUR (4)** questions in the answer booklet provided. All questions carry equal marks.

Materials permitted :
Drawing Instruments and Calculator

Material provided :
A2 Sized Drawing Paper

Examiner : **Iylia Elena Abdul Jamil** & Phua Chin Lai

Moderator : Mr Teh Thiam Oun

This paper consists of 7 printed pages, including the cover page.

DIPLOMA IN MECHANICAL ENGINEERING PROGRAMME (DMEN)
DIPLOMA IN ELECTRICAL AND ELECTRONIC ENGINEERING PROGRAMME (DEEI)
EGR1175 / EGR1185: ENGINEERING DRAWING
FINAL EXAMINATION: APRIL 2018 SESSION

Instructions: This paper consists of **SIX(6)** questions. Answer any **FOUR (4)** questions in the drawing paper provided. All questions carry equal marks. All drawings are to be drawn in full size unless otherwise stated. All dimensions are not required unless the question explicitly asks for them.

NOTE: All dimensions are given in mm.

Question 1

Using principles of tangency, draw Figure Q1, making sure that the construction to obtain the center of the arcs and circles are properly indicated.

(25 marks)

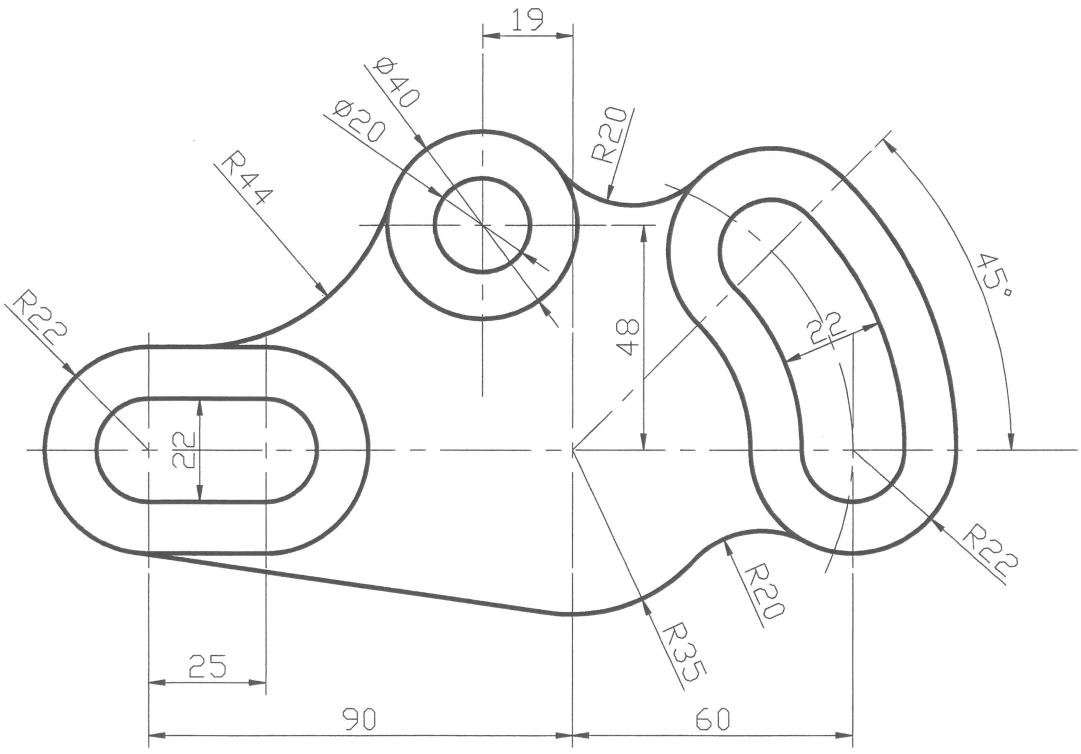

Figure Q1

Question 2

Draw the following views in third-angle projection with scale 1:1;
(i) a front view,
(ii) a right side view, and
(iii) a top view.

(25 marks)

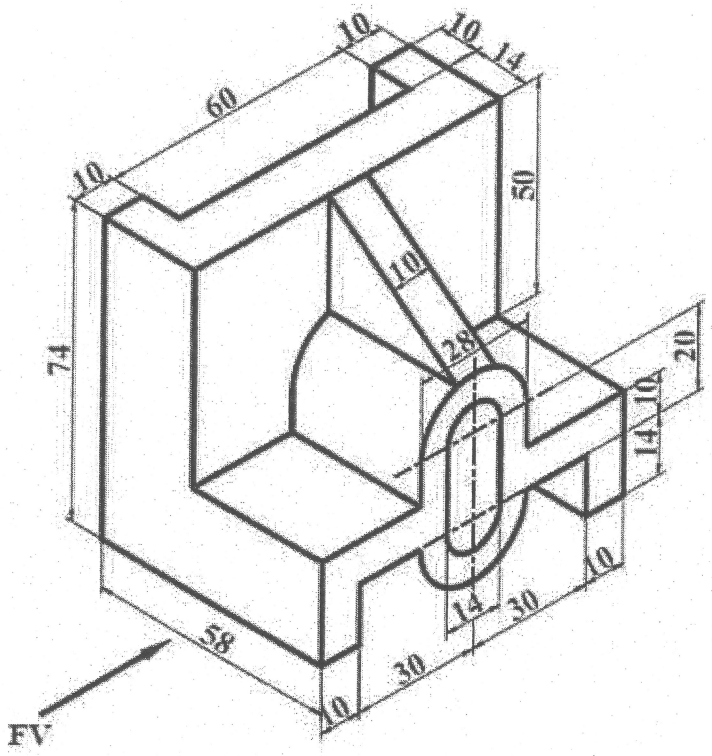

Figure Q2

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Question 3

Draw the following views in **first-angle projection** with scale 1:1;
(i) a front view from A,
(ii) a side view from B, and
(iii) a top view.

(25 marks)

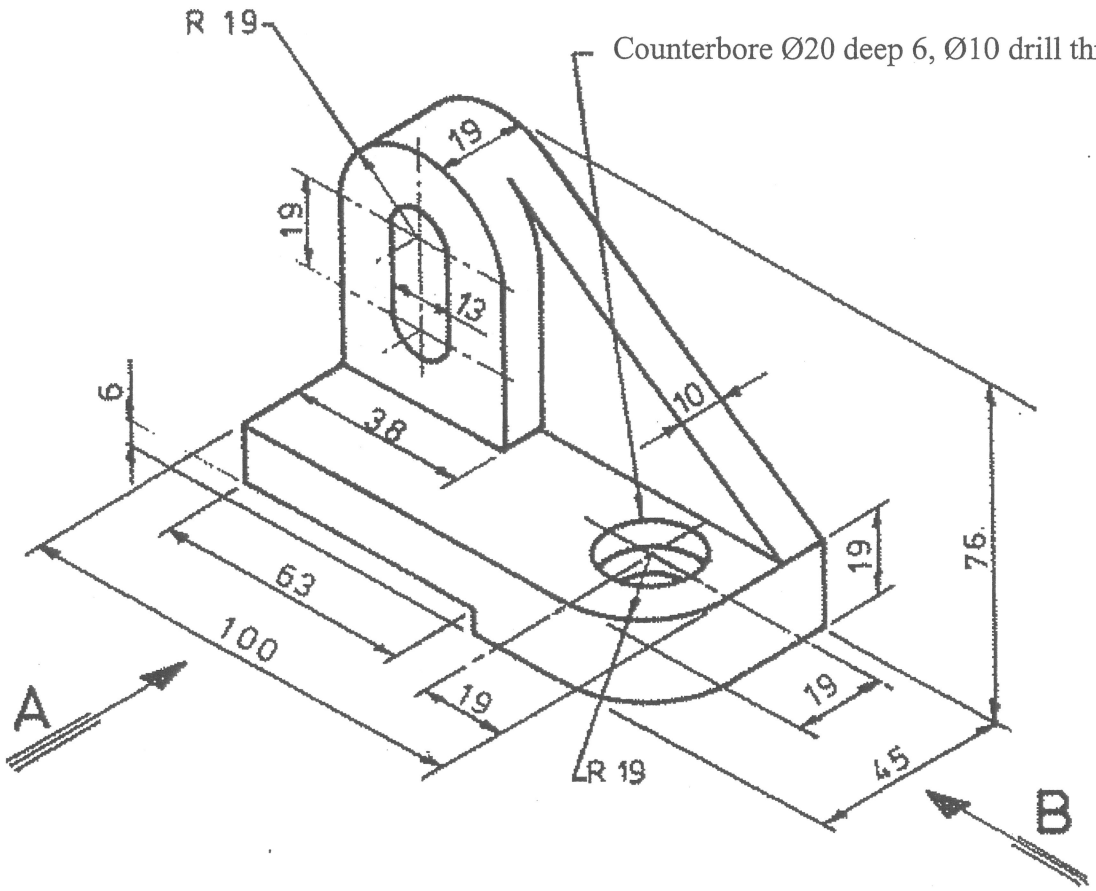
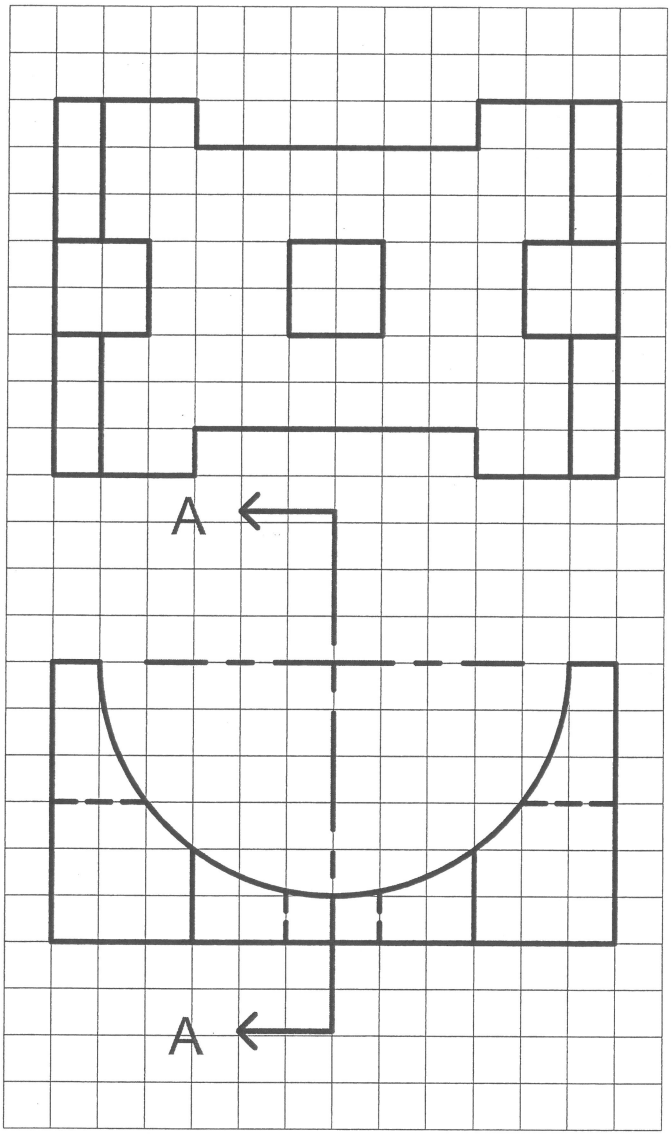


Figure Q3

Question 4

Figure Q4 is presented in 3rd angle projection. Draw in Third Angle projection of the following views:-

a) A front view (2 marks)
b) A plan view (2 marks)
c) A Right sectional view AA. (21 marks)



Note: 1 grid denotes 1 cm

Figure Q4

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Question 5

A cylinder 70 mm dia. and 100 mm axis is completely penetrated by a square prism of 42 mm sides and 100 mm axis, horizontally. Both axes intersect & bisect each other. All faces of the prism are equally inclined to horizontal plane. Example of its front view as shown in Figure Q5. Draw the front, plan and right views in 3rd angle projection.

(25 marks)

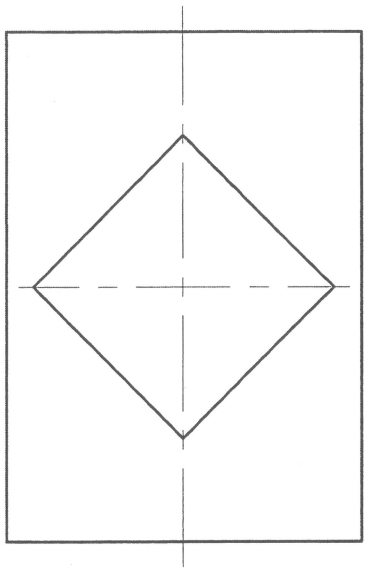

Figure Q5

Question 6

Draw the isometric view of the component given in Figure Q6 with the corner shown by the letter A in the foreground. The object has been drawn using First Angle Projection.

(25 marks)

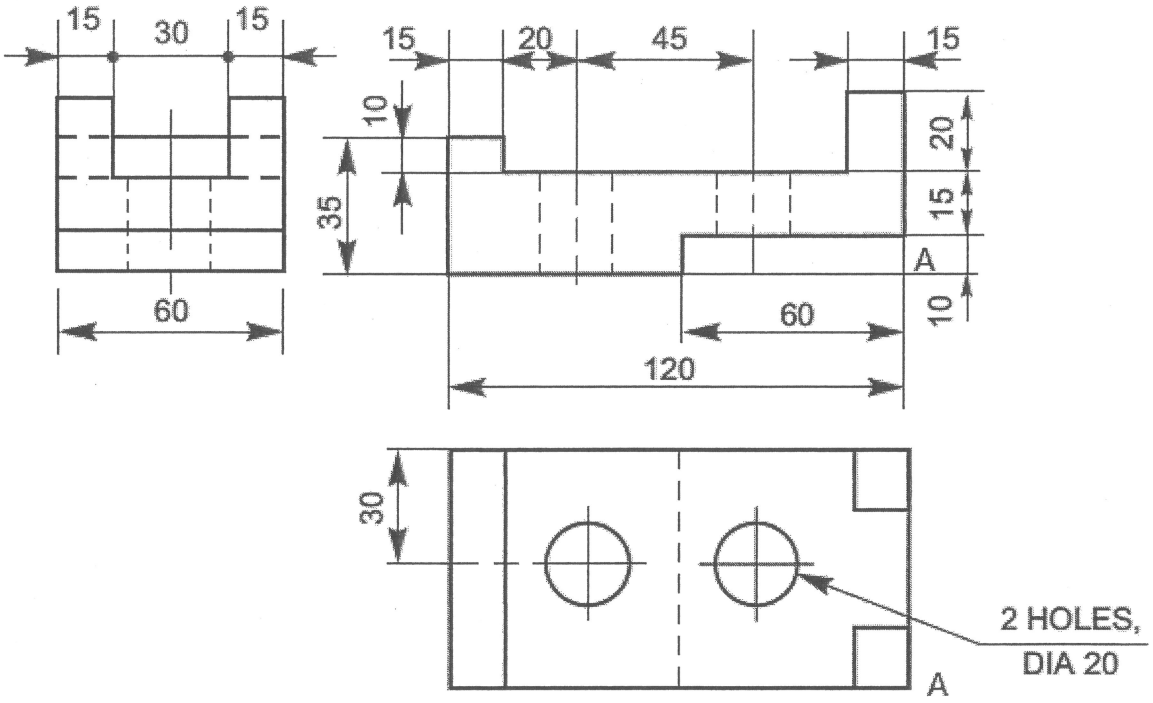

Figure Q6

-THE END-