



UGANDA INSTITUTE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY

END OF SEMESTER I EXAMINATIONS

ACADEMIC YEAR 2017/2018

DEPARTMENT : ICT

YEAR OF STUDY : TWO

PROGRAMME : Diploma in Electrical& Electronics(DEEE)

COURSE : ENGINEERING DRAWING

COURSE CODE : EE1102

DATE : WEDNESDAY, DECEMBER 7, 2018

TIME : 09:00 – 12:00HRS

DURATION : 3 hours

INSTRUCTIONS:

- (i) The Paper consists of two sections (A) and (B)
- (ii) Attempt ALL questions from Section (A) which is Compulsory, and ANY THREE questions from section (B)
- (iii) Begin each number on a new page of the answer booklet.
- (iv) Credit will be given for use of relevant examples and illustrations
- (v) You may use ONLY the back page of your answer booklet for rough work
- (vi) Do not write on the question pa

SECTION A [40 MARKS]

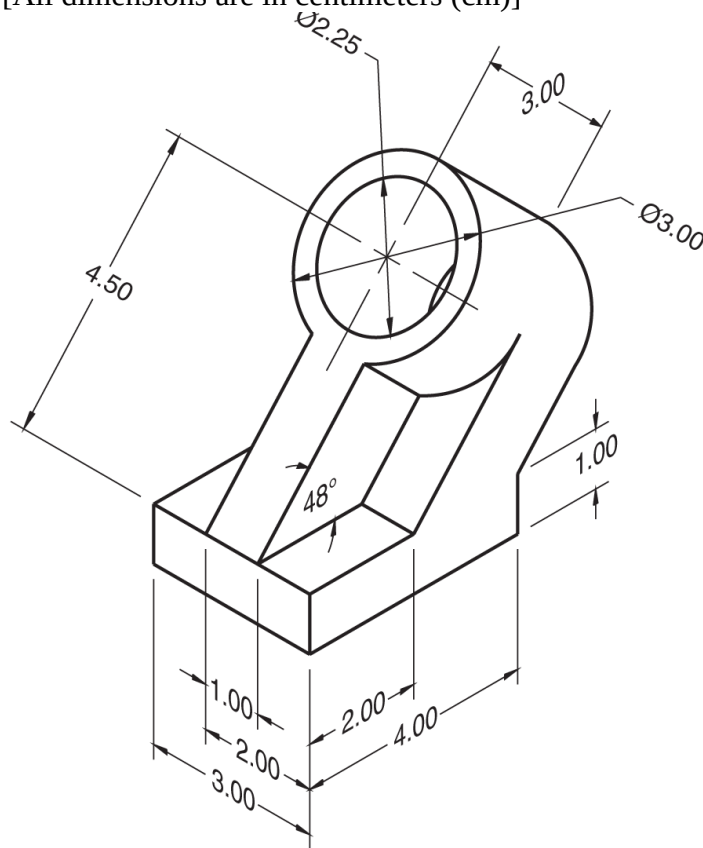
Attempt **ALL** the Questions in this Section.

- (a) (i) Draw a boundary and title block.
 (ii) Properly print your name, registration number, course name, course code, scale used and date.
- (b) The figure below shows the isometric drawing of a Cylinder Support.
 Draw to full size:
- (i) First angle projections showing all the hidden parts.
 (ii) Third angle projections showing all the hidden parts.
 (iii) Auxiliary view using third angle.

(8 marks)**(12 marks)****(12 marks)****(8 marks)**

[Do not draw the dimensions on the complete multi-views.]

[All dimensions are in centimeters (cm)]

**SECTION B [60 MARKS]**

Attempt **ONLY THREE** Questions in this Section.

Question 1

- (a) An involute string 165 mm long has its one end attached to the circumference of a circular disc of 50 mm diameter. Draw the curve traced out by the other

end of the string, when it is completely wound around the disc, keeping the string always tight.

(15 marks)

(b) Draw the normal and tangent at any point on the curve.

(5 marks)

Question 2

(a) Draw an isosceles triangle of 120 mm long base and 140 mm long altitude.

(2 marks)

(b) By method of tangents, inscribe a parabola in the triangle in (a) above.

(10 marks)

(c) A point is moving in a plane, such that it always remains equidistant from a fixed point F and a vertical line AB. Point F is 70 mm from line AB.

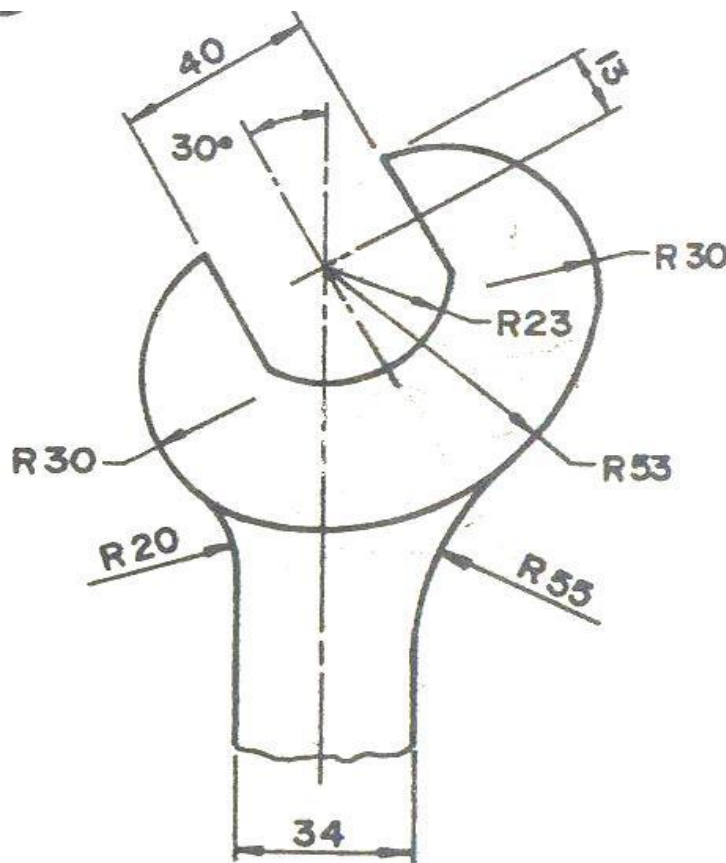
(i) What is the locus of P called?

(1 mark)

(ii) Draw the locus of P.

(7 marks)

Question 3



Draw the figure above, full size showing all the centres of the arcs involved.

(20 marks)

Question 4

(a) (i) Draw a line AB length 125 mm.

(1 mark)

(ii) Bisect AB and label the midpoint as C.

(2 marks)

(b) Divide BC into 8 equal parts. Label the points as P, Q, R, S, T, U, V and W.

(4 marks)

(c) Draw a perpendicular line through point A. Mark a point 60 mm from point A

as E.

(4 marks)

(d) Join point E to point T to form a triangle AET. Bisect the triangle AET and mark a point as D, where it cuts line AC.

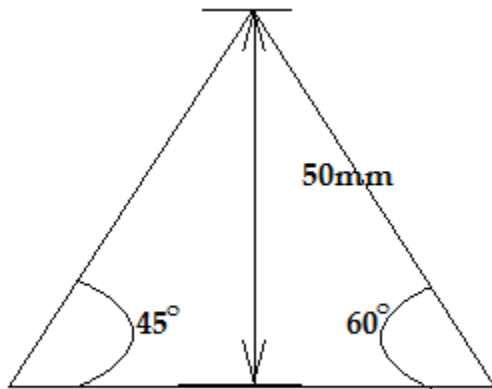
(4 marks)

(e) Circumscribe a circle on the triangle AET.

(5 marks)

Question 5

(a)



Construct the triangle above.

(8 marks)

(b) C' BORE BRONZE BUSH
Ø 24 X 9.5 DEEP
ON ASSEMBLY

Print the above text using Gothic upright lettering. Height = 5 mm.

(12 marks)

END