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SECTION A MARKS		
1	11	21
2	12	22
3	13	23
4	14	24
5	15	25
6	16	26
7	17	27
8	18	28
9	19	29
10	20	30

SECTION B	
1	
2	
3	
4	
SECTION C	
1	
COURSEWORK	
1	3
2	
TOTAL MARKS	
=	

SCHOOL No.	CANDIDATE No.
INITIALS	SURNAME

MINISTRY OF EDUCATION BAHAMAS JUNIOR CERTIFICATE EXAMINATION 2021

0067/1 TECHNICAL DRAWING PAPER 1

Thursday **24 June 2021** 9:00 A.M.–11:00 A.M.

INSTRUCTIONS TO CANDIDATES:

Do not open this booklet until you are told to do so.

Write your school number, candidate number, surname and initials in the space provided.

You must attempt **ALL** sections of this booklet.

Constructional work in Geometry should be shown clearly for the solution of each problem.

Hidden details must be shown unless otherwise specified in the question.

SECTION A – Attempt all questions. Put a tick in the box of the correct answer. You are advised to spend no more than 30 minutes on this section.

SECTION B – Attempt all questions in the spaces provided.

SECTION C – Attempt this question on the folded sheet provided in this booklet.



This question paper consists of **12** printed pages.

SECTION A

MULTIPLE CHOICE

(30 marks)

INSTRUCTIONS:

Please read each statement or question carefully, then tick the box of the correct answer.

1. What is the name of the drafting instrument shown in Figure 1 below?

- A ☐ 30°/45° set square
 B ☐ 30°/60° set square
 C ☐ 45°/60° set square
 D ☐ 45°/90° set square



Figure 1

2. Which lettering style is used in technical drawing?

- A ☐ Slanted and vertical lower case
 B ☐ Slanted and vertical upper case
 C ☐ Slanted upper and lower case
 D ☐ Vertical upper and lower case

3. A _____ is used in multiview drawings to create additional views with proper alignment and size.

- A ☐ Borderline
 B ☐ Centre line
 C ☐ Construction line
 D ☐ Projection line

4. The triangle in Figure 2 is called a/an _____.

- A ☐ Equilateral triangle
 B ☐ Isosceles triangle
 C ☐ Rectangle
 D ☐ Scalene triangle

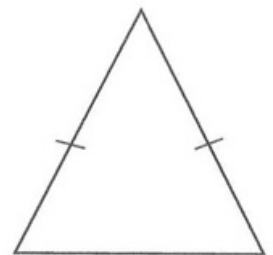


Figure 2



5. Which **ONE** of the following statements is **NOT** true about “guidelines”?

- A ☐ They are used only in the Title Block.
- B ☐ They are very light lines.
- C ☐ They keep lettering uniform in height.
- D ☐ The vertical spacing between the lines is 3 mm and 5 mm.

6. What is a polygon with all sides unequal and all angles unequal called?

- A ☐ Irregular polygon
- B ☐ Irregular quadrilateral
- C ☐ Regular polygon
- D ☐ Regular quadrilateral

7. The missing part of the circle shown in Figure 3 forms a _____.

- A ☐ Sector
- B ☐ Segment
- C ☐ Semi-circle
- D ☐ Quadrant

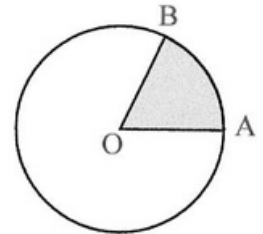


Figure 3

8. A solid line that defines the outlines of an object is called a/an _____.

- A ☐ Borderline
- B ☐ Construction line
- C ☐ Object line
- D ☐ Projection line

9. A pictorial drawing that has receding lines drawn full length at 45° is called a/an:

- A ☐ Cabinet drawing
- B ☐ Cavalier drawing
- C ☐ Isometric drawing
- D ☐ Orthographic drawing

10. Identify the projection symbol shown in Figure 4.

- A ☐ 1st angle projection
 B ☐ 3rd angle projection
 C ☐ Isometric projection
 D ☐ Oblique projection

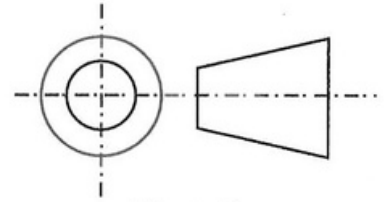


Figure 4

11. The ellipse shown in Figure 5 below is drawn using the _____.

- A ☐ Concentric circle method
 B ☐ Foci point method
 C ☐ Rectangular method
 D ☐ Trammel method

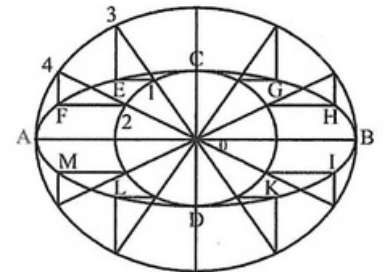


Figure 5

12. Identify the geometrical shape shown in Figure 6 below.

- A ☐ Truncated cone
 B ☐ Truncated cylinder
 C ☐ Truncated prism
 D ☐ Truncated pyramid

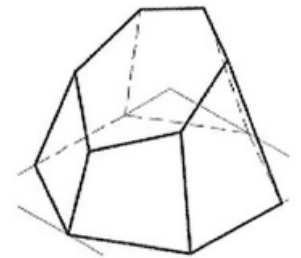


Figure 6

13. The Rubik's toy in Figure 7 below is a geometrical shape of a _____.

- A ☐ Circle
 B ☐ Cone
 C ☐ Cube
 D ☐ Cylinder

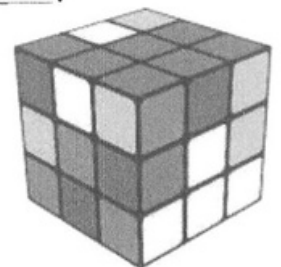


Figure 7



14. The line labelled AB in Figure 8 is a/an:

- A ☐ Diagonal line
 B ☐ External tangent
 C ☐ Internal tangent
 D ☐ Perpendicular line

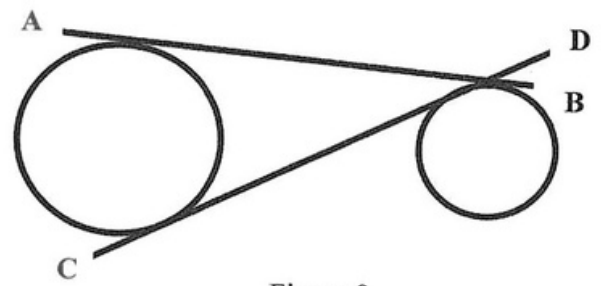
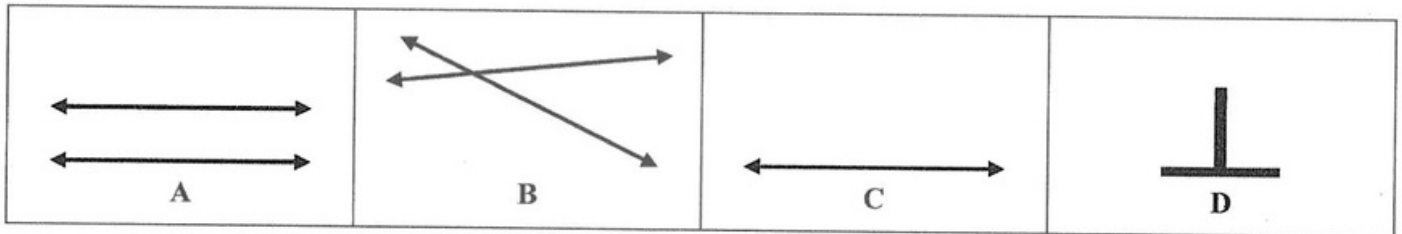


Figure 8

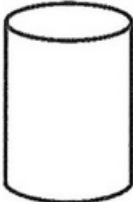
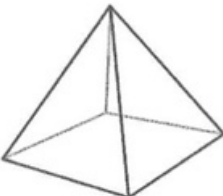
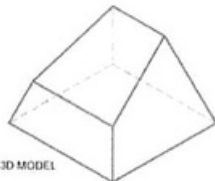
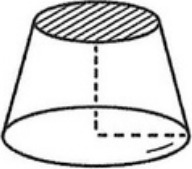
15. Identify the perpendicular line below.



MATCHING

Questions 16–20

Match the pictures of the geometrical solids in **Column K** with the correct name in **Column J**. Write the letter [A–F] of the correct answer in the **answer column**.

	COLUMN K	ANSWER COLUMN	COLUMN J
16. _____ [1]			A. Cone
17. _____ [1]			B. Cylinder
18. _____ [1]	 3D MODEL		C. Pentagonal Pyramid
19. _____ [1]			D. Square base pyramid
20. _____ [1]			E. Truncated cone
			F. Truncated square pyramid



TRUE/FALSE QUESTIONS

Questions 21–25

Circle “T” if the statement is **True**, or “F” if the statement is **False**.

	True	False	
21. A regular heptagon has seven uneven sides.	T	F	[1]
22. Tangential circles touch each other.	T	F	[1]
23. An erasing shield is used to remove debris from the paper.	T	F	[1]
24. Hidden lines are of even spaces and dashes.	T	F	[1]
25. An Isometric projection drawing is drawn at 45°/90°.	T	F	[1]

FILL IN THE BLANKS

Questions 26–30

Read the words in the box below and then use them to fill in the blank spaces in the sentences. The sentences are all riddles that ask the question: **Who am I?**

ANGLES	APEX	BISECT	CIRCLE	CYLINDER
DIMENSION	POINT	PROTRACTOR	RULER	SECTOR

26. I am the highest tip of the triangle. Who am I?
I am _____. [1]
27. I am a circle on top and on the bottom, we are connected by a vertical line on the left and right. Who am I?
I am _____. [1]
28. I am enclosed by two radii that meet at a point and also part of the circumference. Who am I?
I am a _____. [1]
29. I love to measure lines. Who am I?
I am a _____. [1]
30. I show the measurements of an object. Who am I?
I am a _____. [1]

[Turn over

SECTION B

GEOMETRICAL CONSTRUCTION
(40 marks)

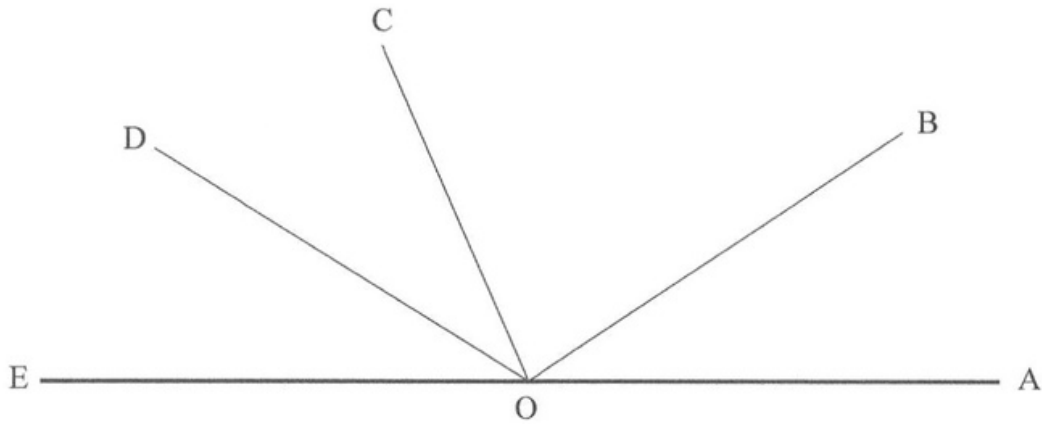
Attempt **ALL** questions in the spaces provided.

Show **ALL** geometrical construction.

ALL measurements are in millimetres.

1. Measure and record the following angles.

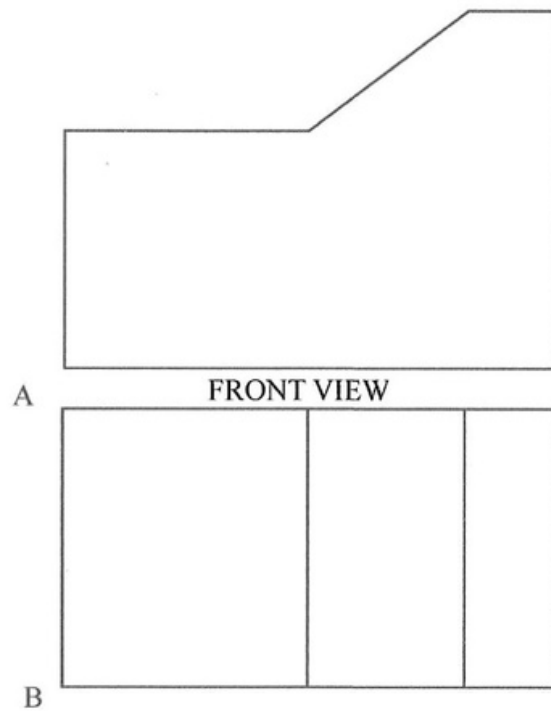
[8]



Measurement of Angle	Name of Angle
AOB = °	
AOC = °	
BOD = °	
BOE = °	



2. Figure 1 shows an Orthographic Projection in First Angle Projection of a drawing. **SKETCH** a cabinet **OBLIQUE PROJECTION**. Use line AB as the starting point. Straight edge is allowed. [9]



PLAN

Figure 1



A ————— B

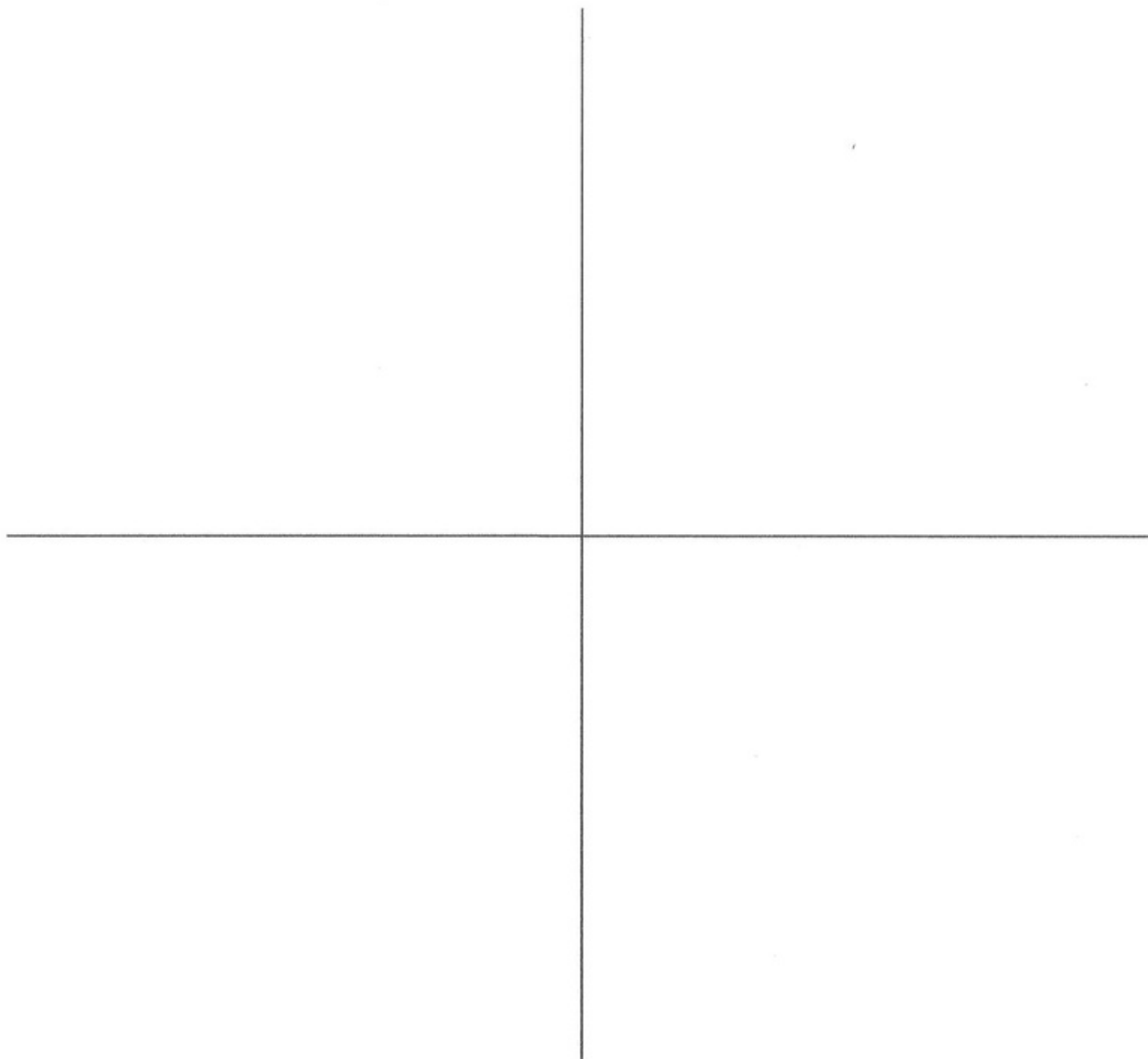
[Turn over

3. Pauline is an excellent diver looking for adventure. She dives to the bottom of the ocean and finds an amazing sea Mollusca – an octopus. Its head is in the centre of the circle. **ALL** its legs form a polygon within the exterior of the circle, just touching the circumference.

(i) Construct this polygon, using a radius of 60 mm.

(ii) Name the polygon.

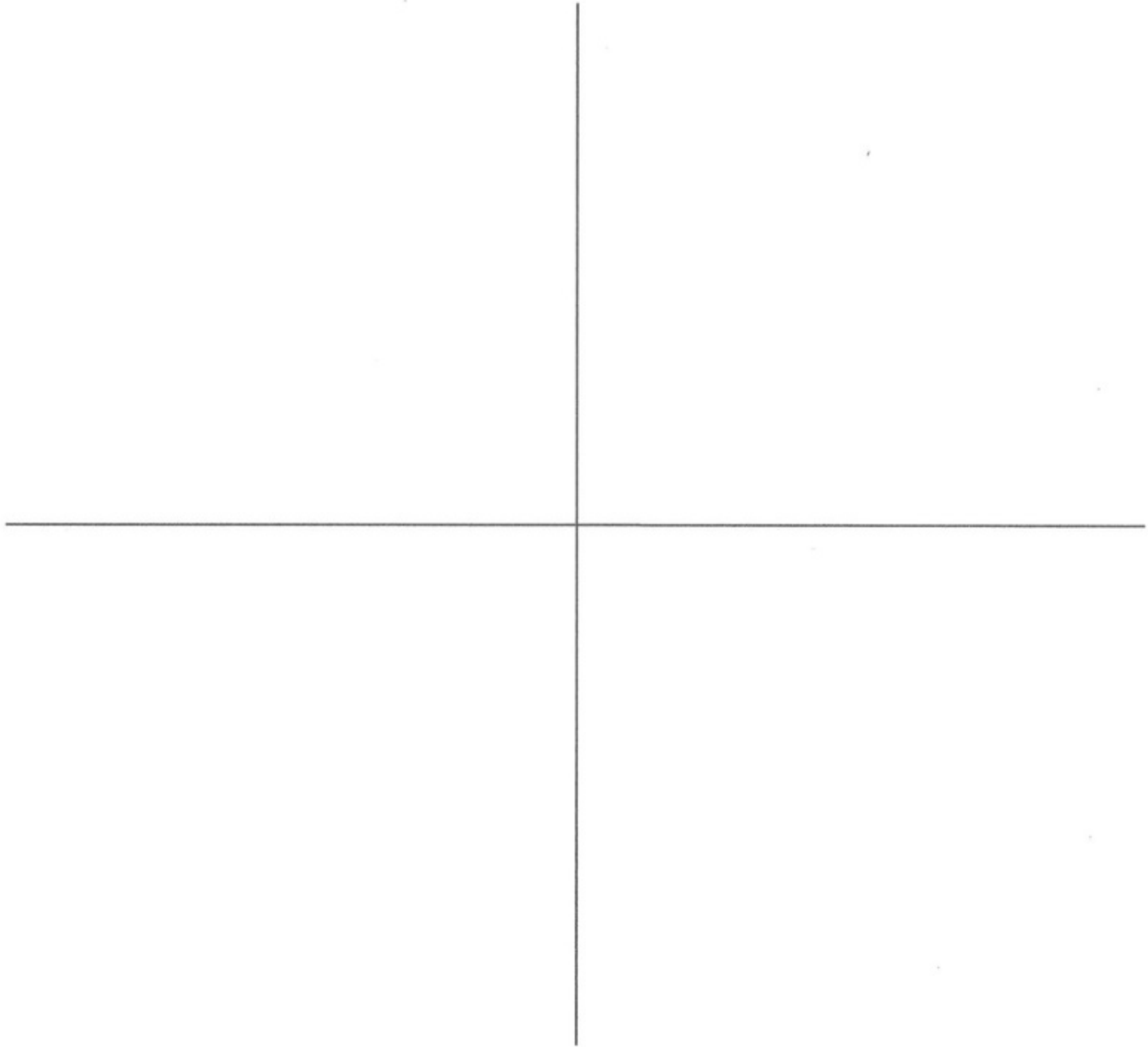
[10]



Polygon's name: _____



4. On the centre lines below, construct an Eye. The diameter of the pupil is 60 mm and the distance between the ends of the eye is 120 mm. Construct the eye using the given circles. [11]
- (i) What is the relationship between the two circles? _____ [1]
- (ii) What is the name of the geometrical shape? _____ [1]



SECTION C

ORTHOGRAPHIC PROJECTION

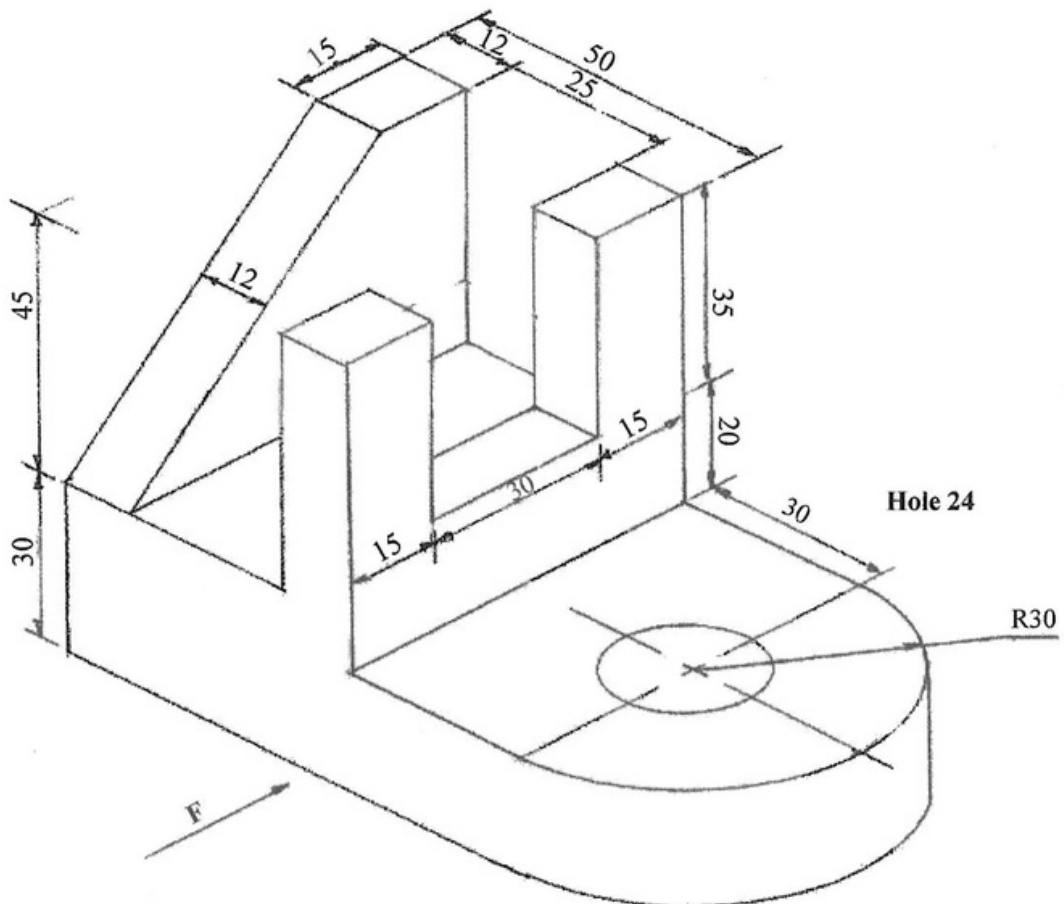
(30 marks)

INSTRUCTIONS:

Print your surname, initials, school number, candidate number and the name of the drawing in the title block on the sheet provided. The blank sheet is detachable and may be taken off.

Use the sheet and draw full size, in THIRD ANGLE PROJECTION, the following views of the TOOL SUPPORT below.

- (a) A front view looking from the direction of arrow "F".
- (b) A plan in projection with the front (a).
- (c) An End View in projection with the front view.
- (d) Show all hidden details.
- (e) Name each view.
- (f) Show six (6) dimensions.



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