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FOR EXAMINERS' USE ONLY			SECTION B		SCHOOL No.	CANDIDATE No.
SECTION A MARKS			1			
1	11	21	2			
2	12	22	3		INITIALS	SURNAME
3	13	23	4			
4	14	24	SECTION C			
5	15	25	1			
6	16	26	COURSEWORK			
7	17	27	1	3		
8	18	28	2			
9	19	29	TOTAL MARKS			
10	20	30	=			

MINISTRY OF EDUCATION BAHAMAS JUNIOR CERTIFICATE EXAMINATION 2020

0067/1 TECHNICAL DRAWING

PAPER 1

Wednesday **3 June 2020** 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.

ALL working is to be done with a PENCIL.

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.

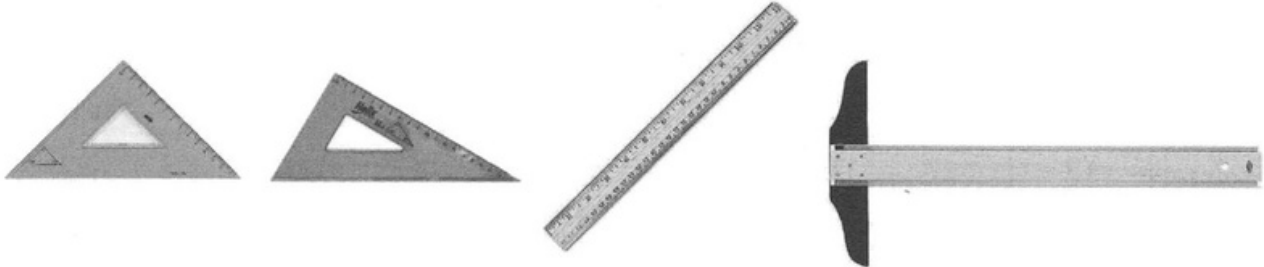
This question paper consists of **12** printed pages.

SECTION A

MULTIPLE CHOICE
(30 marks)

Tick the box of the correct answer in each of the following.

1. Identify the drafting instrument which is used to draw horizontal lines.



A ☐

B ☐

C ☐

D ☐

2. The hatch lines in Figure 1 are called _____.

- A ☐ Centre line
B ☐ Cutting plane line
C ☐ Hidden line
D ☐ Section line



Figure 1

3. In Figure 2 to bisect angle CAB, the compass must be placed on _____ then _____.

- A ☐ A, B
B ☐ A, F
C ☐ E, D
D ☐ E, F

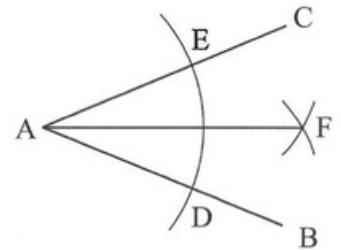


Figure 2

4. Given $XY = 60\text{ mm}$, $\angle ZXY = 30^\circ$, $\angle XYZ = 100^\circ$. Name the type of triangle that was constructed.

- A ☐ Acute
B ☐ Equilateral
C ☐ Obtuse
D ☐ Right Angle

5. Which of the following grades of pencil is the hardest?

- A ☐ 3B
 B ☐ 4B
 C ☐ 3H
 D ☐ 4H

6. On a drawing the image in Figure 3 is a _____ symbol.

- A ☐ Centre latitude
 B ☐ Centre line
 C ☐ Cutting line
 D ☐ Cutting plane



Figure 3

7. Which quadrilateral below has opposite acute angles that are equal and opposite sides that are parallel?

- A ☐ Parallelogram
 B ☐ Rectangle
 C ☐ Square
 D ☐ Trapezium

8. Identify the geometrical shape of the clock face in Figure 4.

- A ☐ Decagon
 B ☐ Heptagon
 C ☐ Nonagon
 D ☐ Octagon



Figure 4

9. What is the name given to the circular shape drawn in Isometric projection?

- A ☐ Circle
 B ☐ Elliptical
 C ☐ Hyperbolic
 D ☐ Parabolic

10. The Apollonian Gasket in Figure 5 was drawn by many _____ circles.

- A ☐ Concentric
 B ☐ Congruent
 C ☐ Eccentric
 D ☐ Tangential

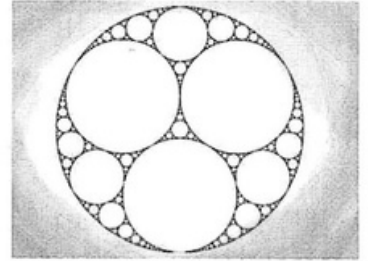


Figure 5

11. The house in Figure 6 was drawn in _____.

- A ☐ Isometric Projection
 B ☐ Oblique Projection
 C ☐ Orthographic Projection
 D ☐ Perspective View

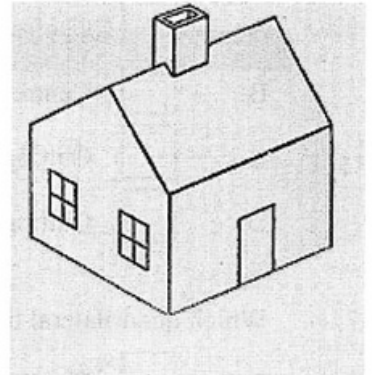


Figure 6

12. The ellipse shown in Figure 7 has a _____ and a _____.

- A ☐ Centre, Chord
 B ☐ Diameter, Radius
 C ☐ Major axis, Minor axis
 D ☐ Vertex, Apex

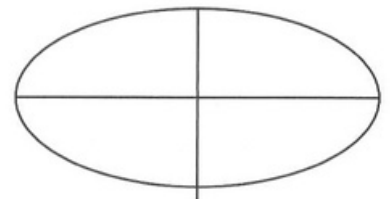


Figure 7

13. Identify the geometrical solid in Figure 8.

- A ☐ Truncated Square pyramid
 B ☐ Truncated Cone
 C ☐ Truncated Hexagonal prism
 D ☐ Truncated Octagonal pyramid

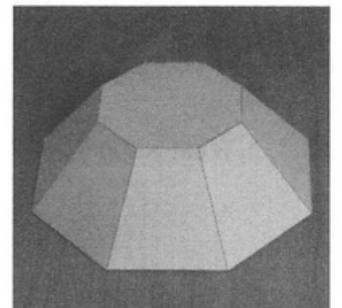


Figure 8

14. An Orthographic Projection is also known as a/an:

- A ☐ Isometric drawing
- B ☐ Multi-view drawing
- C ☐ Oblique Drawing
- D ☐ Perspective Drawing

15. The line PQ in Figure 9 is divided into a ratio of:

- A ☐ 1:2:3
- B ☐ 1:4:9
- C ☐ 2:2:3
- D ☐ 2:3:4

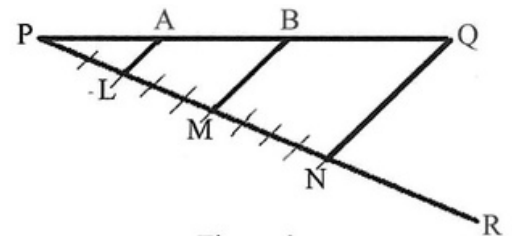
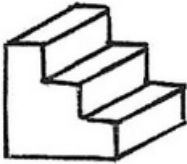
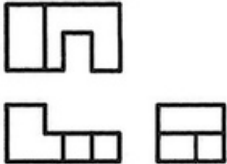
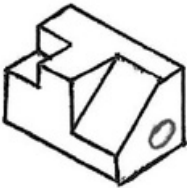
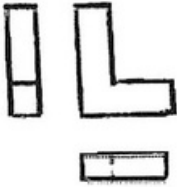
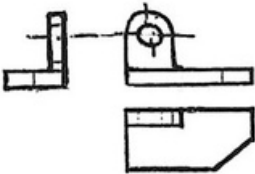


Figure 9

MATCHING

Questions 16–20

Match the pictures in Column A with the names in Column B. Write the letter of the correct answer in the space provided.

COLUMN A		COLUMN B
16. _____ [1]		A. First Angle projection
17. _____ [1]		B. Isometric Projection
18. _____ [1]		C. Oblique Projection
19. _____ [1]		D. Orthographic Projection
20. _____ [1]		E. Third Angle Projection
		F. Truncated Projection

TRUE/FALSE QUESTIONS

Questions 21–25

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

	True	False	
21. Drawing paper should always be stored in a flat position.	T	F	[1]
22. A Tee-square can only draw straight lines when it is made out of plastic.	T	F	[1]
23. There are only six types of pencils.	T	F	[1]
24. Guidelines are thick continuous lines.	T	F	[1]
25. Border lines are thin 10 mm lines drawn from the papers’ edge.	T	F	[1]

FILL IN THE BLANKS

Questions 26–30

Use the words below to complete each sentence.

Who Am I?

ANGLE	ARCS	BISECTOR	CIRCLE	COMPASS
DIMENSION	EXTENSION	POINT	PROTRACTOR	SPHERE

26. I am a type of globe. I am a _____. [1]
27. I am the instrument that marks two arcs above and below line AB. I am a _____. [1]
28. Two lines and vertex forms a _____. [1]
29. I love to measure angles. I am a _____. [1]
30. I show the extent of an object. I am a _____ line. [1]

SECTION B

GEOMETRICAL CONSTRUCTION

(40 marks)

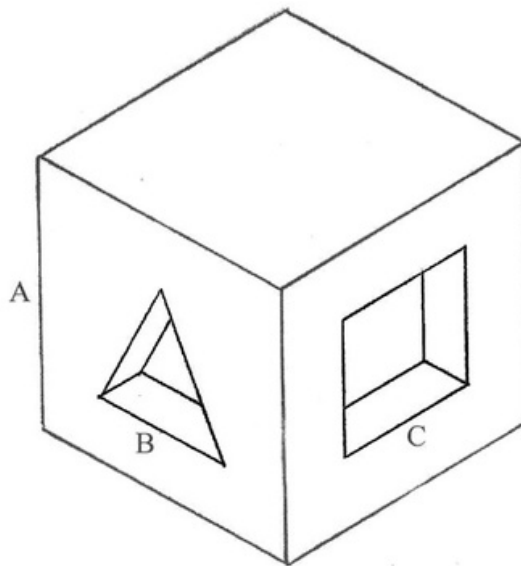
Attempt **ALL** questions in the spaces provided.

Show **ALL** geometrical construction.

ALL measurements are in millimetres.

1. Using the cube in the Isometric Projection below, complete the following questions:

- (a) Prepare the top surface of the cube below by drawing the lines NEEDED for an Isometric circle [3]



- (b) Measure and dimension line A. [1]

- (c) Name the geometrical type and shape of the section labelled B.

(i) geometrical type _____ [1]

(ii) shape _____ [1]

- (d) Name the geometrical type and shape of the section labelled C.

(i) geometrical type _____ [1]

(ii) shape _____ [1]

2. Construct a Perpendicular bisector on a chord passing through the centre of the circle.

[8]

(a) Circle diameter = 70 mm.

(b) Chord AB = 50 mm.

3. Ms. Evans sent Mikey to a Mom and Pops Store to purchase a gallon of milk. Mikey walks from point A 90 mm going east. He stopped at the stop sign. At point B he turned slightly of an angle of 105° NE and walked 125 mm to the shop, point C.

After paying for the milk, he decided to take the scenic route home. He went on a straight line from point C home to point A. This route took him a little longer to reach home.

- (a) Construct Mikey's route using a ruler and a compass.
- (b) What is the name of the shape drawn? _____
- (c) How long was his walk? AC _____
- (d) What degree did he turn at point C? _____

4. Construct a regular pentagon within a circle given the side length = 50 mm.

[13]

SECTION C
ORTHOGRAPHIC PROJECTION
 (30 marks)

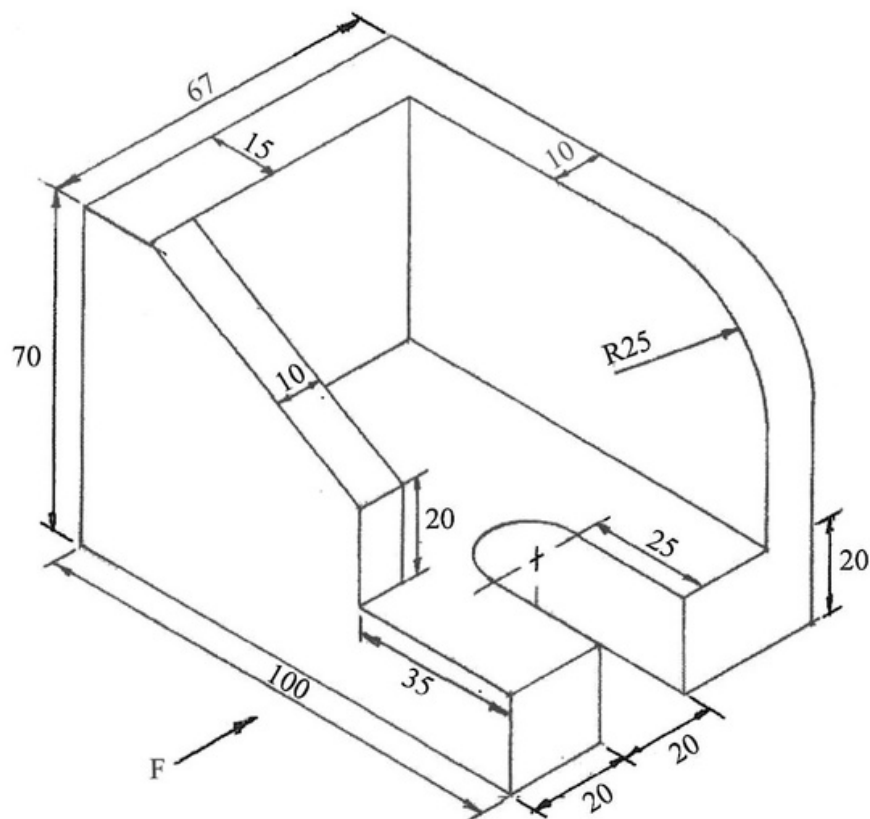
INSTRUCTIONS:

Answer **ALL** questions.

Print your surname, initials, school number, candidate number and the drawing's name in the title block of 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 Shaped Block below.

- (a) A front view looking from the direction of arrow "F".
- (b) A plan view in projection with the front view (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.



SHAPED BLOCK

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