

تم تحميل هذا الملف من موقع المناهج الإماراتية



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STUDENT SECTION

Name				Class	
Student MOE number (SIS)		School MOE Number		STUDENT SIGNATURE	
School name					

PLEASE NOTE – This SAMPLE paper is to guide students on question types **ONLY, not the content for the final assessed examination. Please refer to the coverage documents & revision notes.**

Creative Design & Innovation

12 Advanced

Sample - Term 1

Date: November 2017

Time: TBC

Duration: 35 minutes


STUDENT INSTRUCTIONS –

Students must attempt **all** questions.

For this examination, you must have:

1. An ink pen – blue.
2. A pencil.
3. A ruler.

TEACHER NOTES & INSTRUCTIONS

Please tick  the correct answers in **RED INK** and then write the mark awarded in the marking columns. With multiple mark answers highlight where the mark is awarded by **underlining** or by using an extra tick.

FOR ADMIN ONLY

MARKING RECORD

Section	Section TOTALS
Section 1	
Section 2	
Section 3	
MARKER SIGNATURE	TOTAL MARKS
MODERATOR SIGNATURE	

SECTION 1 – Multiple choice

Choose and circle the correct answer – A, B, C or D. (1 mark each)

Example: *To find and analyze information.*

- A. sketch
- B. evaluate
- C. research
- D. organize

1. A rough drawing often made to assist in making a more finished picture -
 - A. symmetric
 - B. opaque
 - C. equality
 - D. sketch

2. A description of measurement for length, width and height -
 - A. radius
 - B. tangent
 - C. dimension
 - D. geometry

3. A hard, protective outer case of an object or material -
 - A. subtract
 - B. shell
 - C. symmetry
 - D. system

4. The flat surface on which a straight line joining two points on it would wholly lie -
 - A. plane
 - B. parameter
 - C. extrude
 - D. perpendicular

5. The way that someone or something looks -

- A. opaque
- B. extrude
- C. glossy
- D. appearance

/ 5

SECTION 2 – True or False

Choose and circle the correct answer TRUE or FALSE.

(1 mark each)

Example:

- Rendering an image give it colour & texture.

TRUE

FALSE

1. Perspective is a form of 3D drawing.

TRUE

FALSE

2. A decal is an image that can be added to a surface.

TRUE

FALSE

3. A vanishing point is used to remove pencil marks.

TRUE

FALSE

4. Translucent means that the object reflects light.

TRUE

FALSE

5. GPU stands for Graphics Processing Unit.

TRUE

FALSE

/ 5

SECTION 3 – Core content

1a – Describe the meaning of the term written below.

Hydraulic system - _____

_____ (2 marks)

1b – State whether the terms below relate to a hydraulic system **or** a pneumatic system.

Choose and circle the correct answer either **hydraulic** or **pneumatic system**.

- Pressurized liquid is used to change power from one form to another in a hydraulic system / pneumatic system.
- Pascal's law refers to the principle of a hydraulic system / pneumatic system.
- Dental drills use the principle of a hydraulic system / pneumatic system.

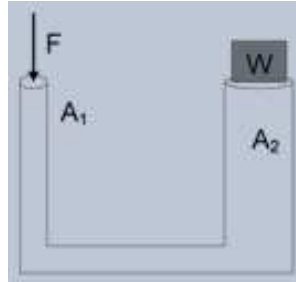
(3 marks)

/ 5

2a – Describe the meaning of the compressibility of fluids.

(2 marks)

2b – The narrow piston area is 5 m^2 and the wide piston area is 50 m^2 . If the force applied by the block is 1800 N , find the magnitude of force F to lift the block W . (3 marks)



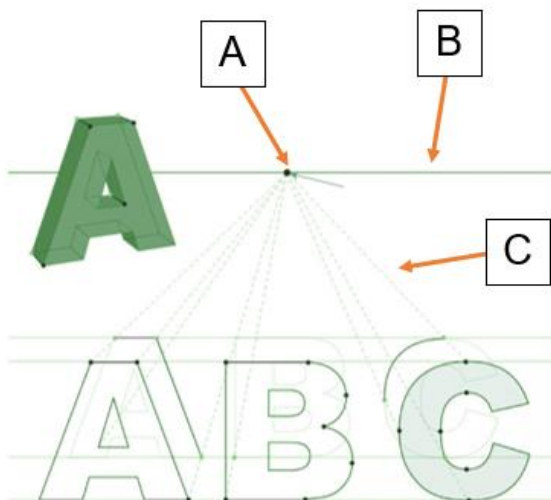
Formula

Calculation

/ 5

3a – Label each part of the drawing shown below.

(6 marks)



A	
B	
C	

3b – What type of drawing is shown in the drawing in question 3a?




_____ (2 marks)

3c – Describe what Orthographic drawing is used for.

_____ (2 marks)

/ 10

4a – Name the tool icons used in the software for designing your project. (6 marks)

	A	
	B	
	C	

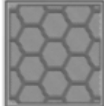


4b – List two possible dimension tools –

Dimension tool 1 - _____

Dimension tool 2 - _____ (4 marks)

/ 10

5 – Match the words with their definition or image. (10 marks) Write the matching letter in the correct box. The first one has been done for you.

COMPONENT	Symbol letter	SYMBOL / COMPONENT	
1. Save	F	To cause something to remain alone or apart from others.	A
2. Isolate		To adjust the size of an object.	B
3. Align			C
4. Scale			D
5. Refresh		To place or arrange something in a straight line.	E
6. Honeycomb			F

/10

TOTAL
/ 50

You have now finished the examination.