

**Candidate's Examination Number.....**

**SMZ**

**ZANZIBAR EXAMINATIONS COUNCIL**

**FORM THREE ENTRANCE EXAMINATION**

**059**

**WOOD WORK AND PAINTING**

**TIME: 2:30 HOURS**

**THURSDAY 11<sup>TH</sup> NOVEMBER, 2021 A.M**

**INSTRUCTIONS TO CANDIDATES**

1. This paper consists of THREE (3) sections A, B and C.
2. Answer ALL questions in section A, B and C.
3. All answers must be written in the space provided.
4. All working must be written in black or blue ink and diagrams must be in pencil.
5. Write your examination number on every page of the booklet.
6. Calculators, cellular phones and unauthorized materials are not allowed in the examination room.

<b>FOR EXAMINER'S USE ONLY</b>					
<b>Question number</b>	<b>Marks</b>	<b>Signature</b>	<b>Question number</b>	<b>Marks</b>	<b>Signature</b>
<b>1</b>			<b>6</b>		
<b>2</b>			<b>7</b>		
<b>3</b>			<b>8</b>		
<b>4</b>			<b>9</b>		
<b>5</b>			<b>10</b>		
<b>TOTAL</b>					

**This paper consists of 12 printed pages**

**SECTION A: (15 Marks)**

**Answer ALL questions from this paper.**

1. Choose the correct answer and write its letter below the item number in a table below.
  - i) In a workshop, the first side to plane is
    - A. Bottom edge
    - B. End edge
    - C. Face side
    - D. Face edge
  - ii) This represents the set of personal equipments
    - A. Safety helmet, goggles and gloves
    - B. Safety helmet, goggles, dust mask and gloves
    - C. Safety helmet, goggles, dust mask and gloves, safety boots, ear protector and apron
    - D. Overcoat and boots
  - iii) A special hand tool used for fine finishing surfaces and edges
    - A. Fore plane
    - B. Jointer plane
    - C. Jack plane
    - D. Smooth plane
  - iv) The best hand tool needed for removing large nails from heavy timber is called
    - A. Claw hammer
    - B. Crow bar
    - C. Pincer
    - D. Pliers
  - v. The cut formed by saw during cutting is known as
    - A. Fillet
    - B. Kerf
    - C. Cornice
    - D. River

- vi) When sharpening the teeth of a crosscut saw the best file to be used will be  
A. Flat file                      B. Round file                      C. Square file                      D. Triangular file
- vii) Safety is a combination of knowledge, skill and awareness to prevent  
A. Damage to workshop hand tools  
B. Death to a person operating a machine.  
C. Injuries to a person  
D. Injuries to a person, hand tools and other materials
- viii) In practical works, a machine used for turning a piece of a wood is called  
A. Spindle moulder machine  
B. Circular saw machine  
C. Lathe machine  
D. Tenoners
- ix) Which of the following tools is used to control noise in a workshop?  
A. Ear protection  
B. Goggles  
C. Protective helmet  
D. Workshop boots
- x) The equipment used to prevent top of a workbench from being damaged  
A. Bench vice  
B. Bench hook  
C. Bench holdfast  
D. Bench stop

**Answers**

i	ii	iii	iv	v	vi	vii	viii	ix	x

2. Match the method of painting in **list A** with the name of the method in **list B** by writing the letter of the correct response below the item number in the given table.

<b>LIST A</b>	<b>LIST B</b>
i) An oldest method for painting	A. Brushing
ii) A rolling method for painting	B. Brushing and spraying
iii) A portable method for painting	C. By roller
iv) A difficult but best method for painting small items	D. Compressor
v) A method of painting normally used when deep penetration is not required	E. Dipping
	F. Dipping and brushing
	G. Spraying only

**Answers**

i	ii	iii	iv	v

**SECTION B: (70 Marks)**

**Answer ALL questions from this section.**

3. Write brief explanation on the following terms as related to reconditioning of saws.

i) Setting

ii) Topping

iii) Re-shaping

iv) Sharpening

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4. a) Define the following terms.

i) Varnish

ii) Furniture polish

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b) i) Identify any two (2) materials used to make varnish.

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ii) Name any two (2) materials used to make furniture polish.

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c) Explain why do we varnish our furniture?

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5. Power tools should be operated with great care so as to avoid accidents. As a qualified technician explain any ten (10) regulations to be considered when using power tools.

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6. An oil paint is made up of various components. As a civil engineering student,

a) Analyze any four (4) basic components of oil paints.

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b) Explain any four (4) applications of oil paints.

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7. Machines are used in workshop to enable workers to perform more efficiently.

a) Name any five (5) wood working stationary machines.

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b) State the application of each of the machine you named in (a) above.

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8. a) Differentiate between paint and painting.

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b) Explain why do we paint our buildings? (Give two (2) reasons)

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c) Identify any three (3) methods of painting.

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9. a) Define the term **colour circle**.

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b) Briefly explain the following colour concepts.

i) Primary colours

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ii) Secondary colours

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iii) Tertiary Colors

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c) Write down two (2) examples of colours.

i) Primary colours

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ii) Secondary colours

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iii) Tertiary Colours

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**SECTION C: (15)**

**Answer only ONE (1) question from this section.**

10. Accidents may occur at any time in our school workshops. Explain the essential steps to be followed if one of the students has been injured and suffering from severe bleeding during a practical session.

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