

DEPARTMENT OF EDUCATION

LOWER SECONDARY SCHOOL CERTIFICATE EXAMINATION (LSSCE)

PRACTICAL SKILLS

Wednesday

12th October 2016

Time allowed

1 hour 30 minutes

12:30 pm – 2:00 pm

Candidates are advised to fully use the time allocated



INSTRUCTIONS TO CANDIDATES:

(To be read out by the external invigilator before the start of the examination)

There are **36** questions in this paper. Attempt **ALL** questions even if you are not so sure of some of the answers.

The Examination is divided into three parts:

PART A:	Multiple Choice	(Questions 1 to 20)
PART B:	Short Answer	(Questions 21 to 35)
PART C:	Extended Response	(Question 36)

The Answer Sheet is part of the Examination Booklet. Take out the middle pages and remove the Answer Sheet by tearing along the perforation. You may use the blank sheet for rough work.

Write your province code, school code, candidate number, name and school name in the space given on the **ANSWER SHEET**.

For each question in **PART A** (**Questions 1 – 20**), choose the correct answer by writing the letter A, B, C or D in the space provided on the **ANSWER SHEET**.

For each question in **PART B** and **PART C** (**Questions 21 – 36**), work out the answer and write the answer in the space provided on the **ANSWER SHEET**.

If you find a question very difficult, do not spend too much time thinking about it. Skip the question and go on with the rest of the paper. If you have time in the end, return to the difficult questions and think about them more carefully.

Write your answers in BLUE or BLACK ink (pen or biro).

If you decide to change an answer, make your correction as shown below so that it is clear to the markers what your final answer is. Do NOT use correction fluid on your answer sheet.

Example



Hand in BOTH the Answer Sheet and the papers used for rough work at the end of the examination.

Extra time will NOT be allowed to complete the examination under any circumstances.

Penalty for cheating or assisting to cheat in national examinations is non-certification.

DO NOT TURN OVER THIS PAGE AND DO NOT WRITE UNTIL YOU ARE TOLD TO START.

PART A: MULTIPLE CHOICE QUESTIONS (QUESTIONS 1 to 20)

For each question, choose the correct answer and write A or B or C or D in the space provided on the ANSWER SHEET.

QUESTION 1

What is the part of a file that fits into the handle?

A. point	B. face	C. thread	D. tang
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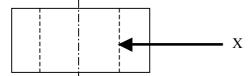
QUESTION 2

The size of a hammer is determined by its

Α.	claw.	B. head.	C. face.	D. handle.

QUESTION 3

Study the orthographic projection below.



What is the name of the line labeled X?

	A. C	Construction line	B.	Dash line	C.	Hidden line	D.	Center line
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QUESTION 4

What does the diagram below illustrates?



- A. Timber grain
- C. Sawing method
- B. Timber defect
- D. Timber style

D. Floor

QUESTION 5

Where would you normally find the 'Facia Board' on a building?

A. Wall B. Roof	C. Foundation
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QUESTION 6

What is the correct file to enlarge a drilled hole?

A. Circular file B. Round file C. Triangular file D. Half-round file

QUESTION 7

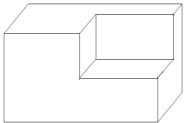
What is the name of the screw shown below?



- A. Countersunk head B. Flat head
- C. Philips head D. Straight head

QUESTION 8

The diagram shows an isometric drawing.

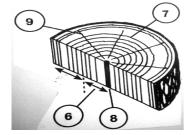


The vertical lines must be draw with the aid of a T-Square and

A. Drawing Board. B. Ruler. C. Square. D. Set Squares.

QUESTION 9

The diagram below illustrates the cross-section of a log.



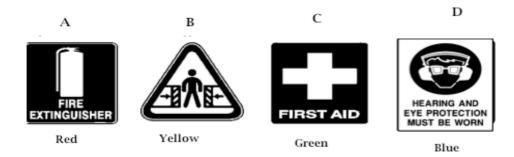
Which number indicates the medullary ray?

A. 6 B. 7 C. 8 D. 9

QUESTION 10

The standard cement-mixing ratio for general purpose concrete is				
A. 3:1:2	B . 3:4:5	C. 4:2:1	D. 4:1:2	

For Questions 11 and 12 identify the correct safety signs.



QUESTION 11

Which safety sign indicates danger?

QUESTION 12

Which safety sign indicates caution?

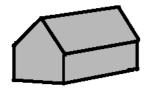
QUESTION 13

Which of the following is a torsion tool?

A. Mallet B. Claw Hammer	C. Pliers	D. Screw driver
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QUESTION 14

The diagram below illustrates a type of roof.



What is the name of this type of roof?				
A. Skillion	Β.	Hip		
C. Buterfy	D.	Gable		

QUESTION 15

The double floor joists put on buildings are to

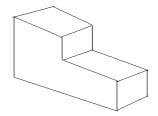
- A. have the greater strength to support the walls and or partitions.
- B. make use of many joists already cut.
- C. help support the weights of the roof.
- D. help carry the weight of the doors.

QUESTION 16

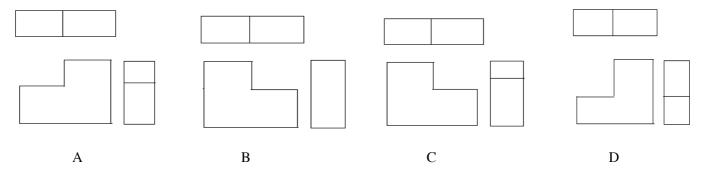
In PNG, the standard size of Stump Holes used to fix stumps or piers for houses built on stumps is

- A. 6 mm x 5 mm B. 60 mm x 50 mm
- C. 600 mm x 500 mm D. 6000 mm x 5000 mm

QUESTION 17



Which drawing below clearly illustrates the isometric drawing shown above?



QUESTION 18

During filing, tiny chips tend to get wedged between the teeth of the file. They can be removed by brushing with a

A. wire brush. B. file card. C. paint brush. D. sandpaper.

QUESTION 19

Piers are also referred to as	·		
A. slap floor	B. footings	C. struts	D. stumps

QUESTION 20

What is the standard measurement used for spacing floor joists in buildings?

A. 6000 mm	B. 600 mm	C. 60 mm	D. 6 mm
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PART B: SHORT ANSWER

(QUESTION 21 to 35)

15 Marks

For Questions 21 to 35, work out the answer for each question and write the answer in the space provided on the ANSWER SHEET.

QUESTION 21

Accidents that occur in the workshop are caused by the factors of ignorance, disobedience and carelessness. What do we call these factors?

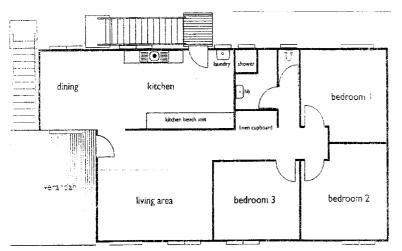
QUESTION 22



What is the name given to this type of hardware?

QUESTION 23

In technical drawing, what is the most appropriate drawing instrument used to draw a 45° sloping or inclined line?



QUESTION 24

What do we call this type of building plan?

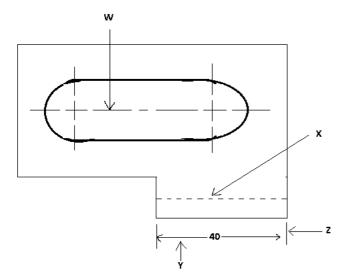
QUESTION 25



In what activity in building construction is this tool mainly used for?

For Question 26 and 27, refer to the diagram below

The figure below shows different types of lines used in drawing.



QUESTION 26

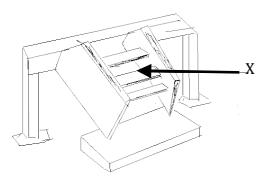
What is the type of line labeled W?

QUESTION 27

What type of line is labeled X?

QUESTION 28

Below is a diagram of the flaps of a building.



What are the parts labeled X called?

QUESTION 29

Below is an example of a nail order.

2kg, 150 mm x 5.6mm bullet head steel-wire nails.

What is the diameter of the shank?

QUESTION 30

Symbols and numbers or abbreviations are often used in many drawings. For example, floor and sectional plans.

What does EXT stand for?

For Questions 31 to 35, refer to the following information.

Below is a table on classification of woodwork joints that needs to be completed. For each question, write the correct name on the answer sheet.

Groups	Name /Type	Uses
Carcase	QUESTION 31	Used on corners or as partitions
	QUESTIONS 32	Used mostly in cabinet work
QUESTION 33	QUESTION 34	Used on pictures and window frames
QUESTION 35	Tongue and Groove	Used in wall paneling or flooring

PART C:EXTENDED RESPONSE(Question 36)

5 MARKS

For Question 36, work out the answer for the question and write the answer in the space provided on the answer sheet.

QUESTION 36

Every material has a set of properties, which affects the appearance of the materials and how it can be used. Match each property in List X with its correct definition in List Y. Use the letters to write your answers in the spaces provided on the answer sheet.

List 2	X	<u>List Y</u>
i.	Elastic	A. able to absorb and impact without breaking
ii.	Density	B. able to resist density or scratching
iii.	Hardness	C. how heavy or light an object is
iv.	Toughness	D. able to resist environmental stresses
v.	Durability	E. able to return to its original shape and size

END OF EXAMINATION

LOWER SECONDARY SCHOOL CERTIFICATE EXAMINATION - 2016

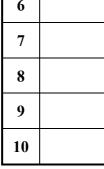
PRACTICAL SKILLS - ANSWER SHEET

YEAR		PROV.	SCHOOL	CAND No.
1	6			
NAME				
SCHOOL				

PART A: (Questions 1 to 20)

Write the letter of your answer next to each question number below.

1		6
2		7
3		8
4		9
5		10



11	
12	
13	
14	
15	

16	
17	
18	
19	
20	

PART B(Questions 21 to 35)

Write your answer next to each question number below.

21	
22	
23	
24	
25	

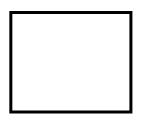
26	
27	
28	
29	
30	

31	
32	
33	
34	
35	

PART C (Question 36)

Write your answer next to each question number below.

36	(i)
	(ii)
	(iii)
	(iv)
	(v)



MARKER 2

DO NOT WRITE ON THIS PAGE

YOU MAY DO YOUR ROUGH WORK ON THIS PAGE

YOU MAY DO YOUR ROUGH WORK ON THIS PAGE