

DEPARTMENT OF  
EDUCATION

LOWER SECONDARY  
SCHOOL  
CERTIFICATE  
EXAMINATIONS  
(LSSCE)

HOME  
ECONOMICS

Wednesday  
09<sup>th</sup> October 2013

Time allowed: 1 hour 30  
minutes

Candidates are advised to  
fully use the time  
allocated

HE

### INSTRUCTIONS TO CANDIDATES:

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

There are **36** questions worth **40** marks in this paper. Attempt **ALL** questions even if you are not so sure of some of the answers.

The Examination is divided into two parts:

**PART A: Multiple Choice (Questions 1 to 20)**

**PART B: Short Answer (Questions 21 to 35)**

**PART C: Extended Response (Questions 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 candidate number, name and school name in the space provided on the Answer Sheet.

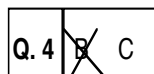
For each question in **PART A**, choose the correct answer by writing letter A, B, C or **D** in the space provided on the **ANSWER SHEET**.

For each question in **PART B** and **C** 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.



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 1 to 20)****20 MARKS**

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

**QUESTION 1**

Which list contains examples of both traditional and modern form of technology?

- A. Hooks and roofing iron      B. Electricity and kerosene  
C. Stone oven and gas stove      D. Spade and plough

**QUESTION 2**

The deficiency in \_\_\_\_\_ causes goitre.

- A. calcium      B. phosphorous      C. iron      D. iodine

**QUESTION 3**

What test can be conducted to find out if the fibre is flammable?

- A. Beating      B. Heating      C. Melting      D. Burning

**QUESTION 4**

Which type of sewing machine would be most affordable to a rural setting?

- A. An electric sewing machine  
B. A treadle machine  
C. A hand sewing machine  
D. Hand sewing

**QUESTION 5**

Food processing is the alteration of food through a series of actions in a kitchen or a factory. The two ways of processing are primary and secondary.

Which of these examples is a secondary method of processing food?

- A. Making fried rice.  
B. Making sago  
C. Scaling fish  
D. Washing vegetables
-

**QUESTION 6**

Rayon is weak when wet and needs to be handled gently during laundering.

Which symbol below is likely to be found on a care label of a rayon blouse?

- A.  B.  C.  D. 

**QUESTION 7**

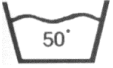













Tina is raised in a family of five and lives on a low income. She often goes hungry. She is beginning to lose weight, looks weak, unhappy and is less interested in getting along with other children.

The above condition indicates that Tina is suffering from \_\_\_\_\_.

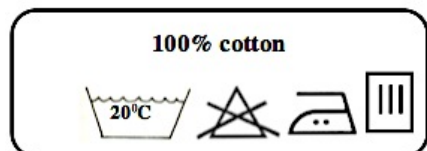
- A. kwashiorkor B. marasmus C. obesity D. rickets

**QUESTION 8**

Many garment manufacturers are now using the International Textile Care Symbols to illustrate the general washing instructions as shown below.

<b>Washing</b>	 Maximum washing temperature	 Do not wash	 Hand wash only	
<b>Bleaching</b>	 Chlorine bleach can be used	 May be bleached	 Do not bleach	
<b>Drying</b>	 Articles can be tumble dry	 Dry flat	 Drip dry	 Hang on line to dry
<b>Ironing</b>	 Use a cool iron	 Use a warm iron	 Use a hot iron	 Do not iron

Mrs. Pongs bought a set of school uniforms for her children with these washing instructions shown on the labels.



Which description is correct according to the labels given above?

- A. The garment can be washed at temperature over 20°C.
- B. The garment can be ironed using hot iron.
- C. The garment can be bleached to remove dirt.
- D. Water should be left on the garment when drying.

**QUESTION 9**

Denin fabrics are woven using \_\_\_\_\_ weave.

- A. plain                      B. twill                      C. satin                      D. basket

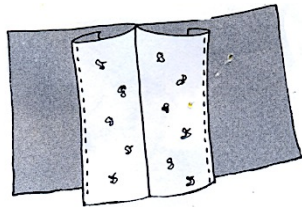
**QUESTION 10**

Knitted fabrics do not crease because they are \_\_\_\_\_ and \_\_\_\_\_.

- A. soft, warm to wear  
B. strong, non-flamamble  
C. elastic, stretch easily  
D. light, absorbent

**QUESTION 11**

The diagram below shows an open seam.



The reason for folding the edges of the seam when machining is to

- A. make the seam stronger.  
B. decorate the eedges of the seam.  
C. even the edges of the seam.  
D. stop the raw edges from fraying.

**QUESTION 12**

To have healthy eyesight we need to eat yellow, red and orange fruits.

Which fruits will provide the necessary nutrients for healthy eyesight?

- A. Water melon, capsicum and cucumber  
B. Citrus fruits, banana and pawpaw  
C. Tomato, grapes and bread fruit  
D. Pawpaw, mango and guava

**QUESTION 13**

Which cooking method is suitable for cooking tough and cheaper cuts of meat?

- A. Stewing                      B. Grilling                      C. Frying                      D. Steaming
-

**QUESTION 14**

Below are some factors to consider when deciding on the type of refrigerator to buy.

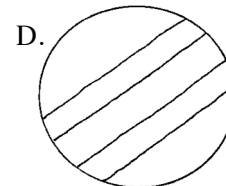
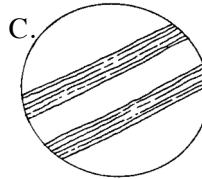
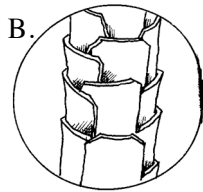
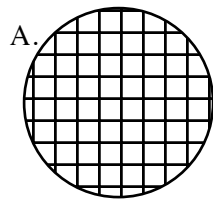
- (i) Size and capacity required.
- (ii) Amount of money available.
- (iii) Additional features, such as automation.
- (iv) Workmanship on the refrigerator and its finish.
- (v) Space available in the kitchen.
- (vi) Star rating for frozen food apartments.
- (vii) Storage arrangements inside the refrigerator.

Which factors would be most appropriate for a large family when deciding to purchase a new refrigerator?

- A. (i), (ii), (v)
- B. (i), (ii), (vii)
- C. (i), (iv), (v)
- D. (i), (v), (vii)

**QUESTION 15**

Which diagram illustrates a piece of fabric being examined with a magnifying glass?

**QUESTION 16**

What can be done to correct the problem if a sewing machine is producing looped or loose stitches?

- A. Replace the needle
- B. Loosen the wheel
- C. Change the lower thread
- D. Adjust the tension knob

**QUESTION 17**

The first aid technique that should be applied to treat bleeding from a cut in the kitchen is to

- A. clean the wound with water continuously to prevent blood from clotting.
  - B. apply pressure to the wound with fingers or a clean pad.
  - C. take the patient to the nearest hospital for treatment.
  - D. wipe off the blood and leave the wound uncovered.
-

**QUESTION 18**

One of the functions of the salting process in food is to

- A. enhance the value of food.
- B. change the chemical feature of food.
- C. enable bacteria to assist in food production.
- D. remove the water content in food.

**QUESTION 19**

Mary is sewing a pillowcase with the sewing machine and the thread keeps breaking.

What is the cause of this problem?

- A. The handle is turned too fast.
- B. The tension is not tight enough.
- C. The wheel must be rusty.
- D. The upper threading was incorrect.

**QUESTION 20**

The diagram below shows a measuring jug that can hold 600 ml of water.



If a  $\frac{1}{4}$  cup can hold 60 ml, how many cups can fill the jug?

- A. 4
- B. 6
- C. 8
- D. 10

**PART B: SHORT ANSWERS****(QUESTIONS 21 - 35)****15 MARKS**

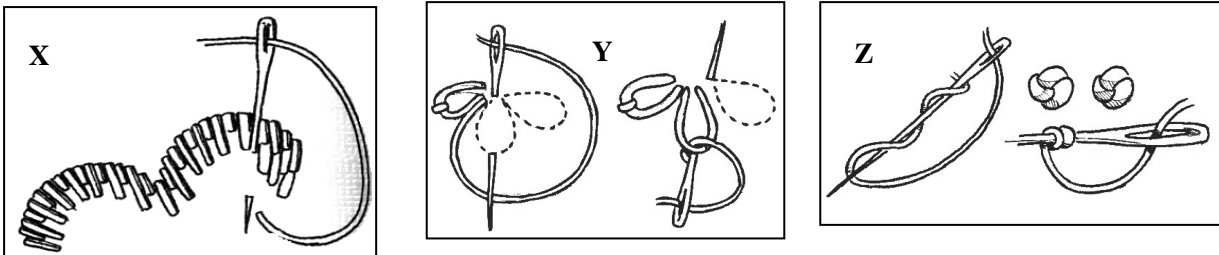
For each question, write the correct answer in the space provided on the Answer Sheet.

**QUESTION 21**

In liquid measurement, a  $\frac{3}{4}$  measuring cup can hold 180 ml.

How many  $\frac{3}{4}$  cups will be used to measure 540 ml?

For questions 22 to 24, refer to the types of embroidery stitches below.

**QUESTION 22**

What letter indicates the embroidery stitch used for the centre of small flowers?

**QUESTION 23**

Which embroidery stitch is used to fill in shapes such as large petals, leaves, tree trunks or hearts?

**QUESTION 24**

Identify the embroidery stitch that is used for small petals of flowers.

For questions 25 and 26, study the information below.

**QUESTION 25**

Write the number of the step where the actual construction or sewing of a pair shorts begins.

*Instructions on how to make a short*

- I. Fold the fabric in half.
- II. Place the pattern pieces on the fabric and pin.
- III. Mark the seam and hem allowances.
- IV. Cut out pieces.
- V. Join the two centres front and centre back, legs and sides with flat seam.
- VI. Make hems around waist and leg openings.
- VII. Thread the elastic and join the ends.
- VIII. Iron the garment. Ready to be worn.

**QUESTION 26**

How many parts of the shorts will require a hem?

**QUESTION 27**

Name the equipment used to hold the pattern firmly on the fabric.

**QUESTION 28**

Why is coloured cotton clothes best hung inside-out to dry?

**QUESTION 29**

What method of frying will be used in the recipe below?

***Savoury French Toast******Ingredients***

- 2 slices bread
- 1 egg
- 1 tablespoon milk
- Salt
- 1 tablespoon butter
- $\frac{1}{4}$  cup grated cheese

***Method***

1. Beat egg, milk and salt together
2. Soak slices of bread in egg mixture about 5 minutes to absorb the liquid.
3. Heat butter in frying pan. Fry bread on one side, turning when golden.
4. Sprinkle cheese on cooked side while second side is cooking.
5. Serve, garnished with parsley.

**QUESTION 30**

The process done for this method of cooking shown below is known as \_\_\_\_\_.

**QUESTION 31**

One of the modern ways of preserving fish for later use is *freezing*.

What is the traditional method of preserving fish?

**QUESTION 32**

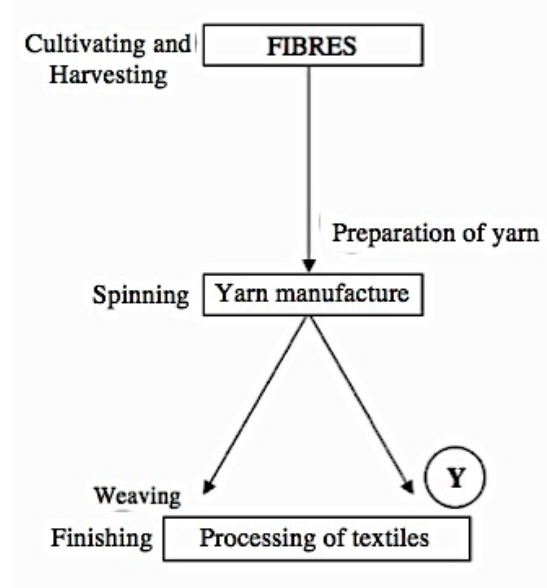
When kneading the dough, it needs to be pushed down with the \_\_\_\_\_ of both hands.

---



**QUESTION 33**

According to the flow diagram below, what does **Y** represent?

**QUESTION 34**

Write the missing word to complete the statement below.

*“Knitted fabrics are comfortable to wear because they \_\_\_\_\_ as the body moves”.*

**QUESTION 35**

What is the method of cooking illustrated in the diagram below?



**PART C: EXTENDED RESPONSE****5 MARKS**

For this question, write the answer in the space provided on the Answer Sheet.

**QUESTION 36**

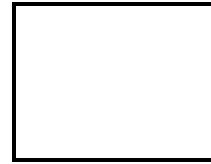
Study the information given in the table and write the correct word or phrase on the Answer Sheet.

<b>THE NUTRIENTS WE NEED IN OUR DIET</b>			
<b>NUTRIENTS</b>	<b>NEEDED FOR</b>	<b>FOUND IN</b>	<b>DIETARY ISSUE</b>
(i) _____	<ul style="list-style-type: none"> <li>• Hardening of bones and teeth.</li> <li>• Functioning of muscles and nerves.</li> </ul>	Milk and other dairy products	Too little can result in osteoporosis.
Iron	(ii) _____	Red meat, egg yolk, dark green leafy vegetables	Too little iron can result in anaemia.
(iii) _____	<ul style="list-style-type: none"> <li>• Excretion of wastes as urine.</li> <li>• Regulation of body temperature.</li> </ul>	Water, fruits and vegetables such as watermelon and celery.	Too little can result in dehydration.
Vitamin C	<ul style="list-style-type: none"> <li>• Resistance to infections.</li> <li>• Healing of wounds.</li> </ul>	Citrus and tropical fruits, capsicum	Too little Vitamin C can result in (iv) _____
Carbohydrate	(v) _____	Breads and cereals, pasta, rice, milk and other dairy products, fruits and vegetables.	Too much carbohydrate can make you overweight or obese.

**END OF EXAMINATION**

**LOWER SECONDARY SCHOOL EXAMINATION – 2013  
DESIGN & TECHNOLOGY SUBJECT FIELD**

**SUBJECT – HOME ECONOMICS – ANSWER SHEET**



MARKER 1

YEAR		PROV.		SCHOOL			CAND No.		
1	3								
NAME									
SCHOOL									

**PART A: (Questions 1 to 20)**

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

1	
2	
3	
4	
5	

6	
7	
8	
9	
10	

11	
12	
13	
14	
15	

16	
17	
18	
19	
20	

**PART B (Questions 21 to 35)**

Write your answer next to each question below.

21		cups
22		
23		
24		
25		

26		parts
27		
28		
29		
30		

31	
32	
33	
34	
35	

**PART C (Question 36)**

Write your answer in the spaces below.

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



MARKER 2

**DO NOT WRITE ON THIS PAGE**

**THIS PAGE MAY BE USED FOR ROUGH WORK**

**CAREFULLY TEAR ALONG THIS PERFORATION**

**THIS PAGE MAY BE USED FOR ROUGH WORK**