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BECE

**BASIC DESIGN AND TECHNOLOGY
(Home Economics)**

Past Questions & Answers

2014

**Junior High School
Years 1, 2 & 3**

Compiled by:



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- Junior High School **students** – you are the ultimate reason for this work.

DEDICATION

To the Lord **Jesus Christ**, our Saviour and soon-coming King

June 2014

BASIC DESIGN AND TECHNOLOGY 1

(Home Economics 1)

Objective Test

40 minutes

1. To hold a lining onto a fabric temporarily, one can use
 - A. basting
 - B. even tacking
 - C. tailor's tacks
 - D. thread marking

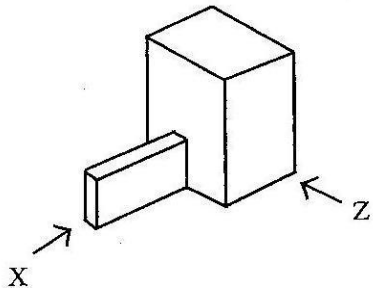
2. Which of the following stitches can be used to neaten raw edges of a set-in-sleeve?
 - A. Feather
 - B. Fishbone
 - C. Herringbone
 - D. Loop

3. The goiter on Evelyn's neck is caused by lack of
 - A. calcium
 - B. iodine
 - C. protein
 - D. vitamin

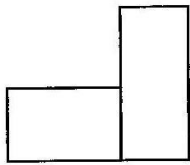
4. Man-made elements represented in art include
 - A. branches
 - B. rivers
 - C. stones
 - D. walls

5. The visitors' book signed at exhibitions helps the exhibitor to know the
 - A. dignitaries who attended
 - B. number of works in high demand
 - C. observations made about the work
 - D. people who came

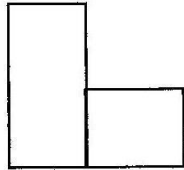
Use the sketch below to answer questions 6 and 7



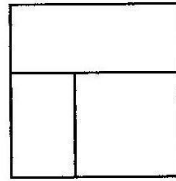
6. Which of the following represents the front view in the direction of arrow **Z**?



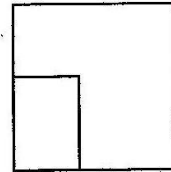
A.



B.

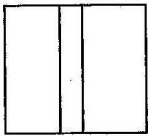


C.

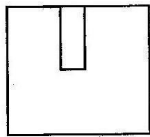


D.

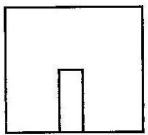
7. Which of the following represents the left end elevation in the direction of arrow **X**?



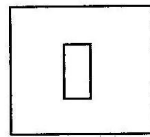
A.



B.



C.



D.

8. A place where art works are sold is
- an archive
 - a gallery
 - a museum
 - a studio
9. In design, the conditions that the final solution must satisfy is termed
- investigation
 - specification
 - development
 - analysis
10. Which of the following instruments is **most** suitable for drawing horizontal lines?
- Tee-square
 - Protractor

- C. Compass
- D. Set-square

Figure 2 shows a design process. Use it to answer questions **11** and **12**

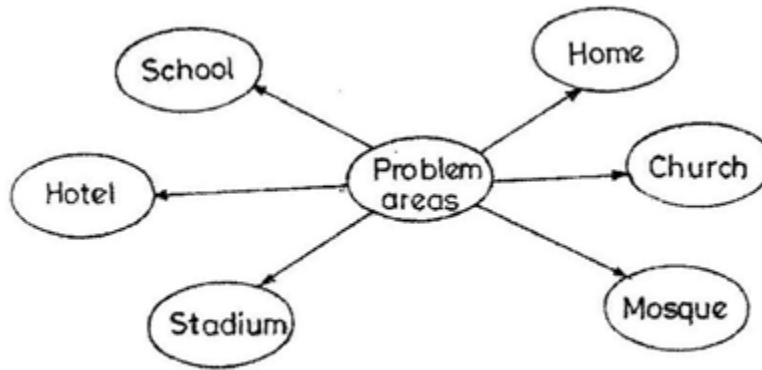


Figure 1

11. Figure 1 shows the method of
 - A. specifying solutions
 - B. stating specification
 - C. evaluating artifact
 - D. identifying needs
12. Which of the following design process stages follows the method shown in figure 1?
 - A. Writing specifications
 - B. Writing situation
 - C. Analyzing a situation
 - D. Sketching possible solutions
13. Shading with lines is described as
 - A. cross hatching
 - B. hatching
 - C. stippling
 - D. tonal value
14. Which of the following colours produces a feeling of warmth?
 - A. Blue
 - B. Green
 - C. Violet
 - D. White
15. Which of the following factors can cause a sewing business to collapse?
 - A. Advertising

- B. Insurance
- C. Low sales
- D. Skilled labour

16. Which of the following tools is used for drawing lines when drafting patterns?
- A. A pair of dividers
 - B. A protractor
 - C. Metre rule
 - D. Tape measure
17. It is better to use cotton fabrics for making specimen because it is
- A. beautiful
 - B. dirt resistant
 - C. durable
 - D. easy to handle
18. All vegetable fibres leave when burnt.
- A. ashes
 - B. charcoal
 - C. hard ball
 - D. soft ball
19. The most suitable fabric for making a bed sheet is
- A. cotton
 - B. nylon
 - C. rayon
 - D. silk
20. One can make an embroidered table runner if he or she learns
- A. designing
 - B. drawing
 - C. sewing
 - D. weaving
21. Which of the following measurement is needed when making a boy's pair of shorts?
- A. Back length
 - B. Chest
 - C. Crotch
 - D. Width
22. The commonest collar on babies' garment is
- A. Chinese
 - B. Peterpan

- C. Shawl
- D. Shirt

23. Which of the following are portions of control equipment?

- I. Measuring cups
 - II. Weighing scales
 - III. Polythene bags
 - IV. Empty tins
-
- A. I, II and III only
 - B. I, II and IV only
 - C. I, III and IV only
 - D. II, III and IV only

24. Choice of equipment and tools is based on

- A. how difficult to clean and maintain
- B. lack of space for storage
- C. life span of equipment
- D. unavailability of spare parts

25. Moist heat causes to the human skin.

- A. bruises
- B. burns
- C. cuts
- D. scalds

26. Food preservation is the treatment given to foods to enable them stay fresh for

- A. a long time
- B. some days
- C. three days
- D. three weeks

27. The method of cooking in which heat travels directly to the food is

- A. baking
- B. boiling
- C. grilling
- D. stewing

28. The method of cooking which is fast but expensive to use is

- A. boiling
- B. frying
- C. grilling
- D. roasting

29. Which of the following are reasons for cooking food? To
- I. help food digest faster
 - II. make the food edible
 - III. make the food soft
 - IV. make the food last longer
- A. I, II and III only
- B. I, II and IV only
- C. I, II and IV only
- D. II, III and IV only
30. The most important factor to consider when planning meals is the
- A. appearance of the food
 - B. family budget
 - C. food available
 - D. service of the food

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BASIC DESIGN AND TECHNOLOGY 1

(Home Economics 1)

Objective Test

ANSWERS

1. B. even tacking
2. C. Herringbone
3. B. iodine
4. D. walls
5. C. observations made about the work
6. A.
7. C.
8. B. gallery
9. B. specification
10. A. Tee-square
11. D. identifying needs
12. D. Sketching possible solutions
13. B. hatching
14. C. Violet
15. C. Low sales
16. C. Metre rule
17. C. durable
18. A. ashes
19. A. cotton
20. D. weaving
21. C. Crotch
22. B. Peterpan
23. B. I, II and IV only
24. C. life span of equipment
25. D. scalds
26. A. a long time
27. C. grilling
28. B. frying
29. A. I, II and III only
30. B. family budget

June 2014

BASIC DESIGN AND TECHNOLOGY 2 (Home Economics 2)

Essay

1 hour

SECTION A (CORE SKILLS)

[20 marks]

Answer question 1 [COMPULSORY]

1. (a) State the **main** method for cooking the following foods:

(i) rice

(ii) cake

(b) State **four** suitable methods for preserving fish.

.....
.....
.....
.....

(c) (i) List the type of pencil **most** suitable for the following operations:

OPERATION	PENCIL USED
Lettering	
Drawing outlines	
Shading	

(ii) List **four** methods of recording data for solving design problems.

.....
.....
.....
.....

(d) (i) State **three** benefits of packaging.

.....
.....
.....
.....

- (ii) List **two** important information on a good package

.....
.....

- (e) Draw a line to illustrate **each** of the following:

- (i) movement
(ii) texture.

MOVEMENT	TEXTURE

SECTION B

[50 marks]

*Answer **two** questions **only** from this section*

All questions carry equal marks

2. The sketch below shows the style of a blouse Afua decides to make for sale.



- (a) State **five** processes that will be used in making up the blouse.

.....
.....
.....
.....
.....

- (b) State **five** cotton fabrics that can be used in making the blouse

.....

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.....

- (c) The cost of making one blouse is GHC 2.50. Work out the cost of fifteen blouses.

.....

.....

.....

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.....

- (d) If Afua sells one blouse at GHC 3.75. Work out the **total** profit for the fifteen blouses

.....

.....

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.....

.....

3. (a) What is *boiling* as a method of cooking?

.....

.....

.....

- (b) State **two** advantages of boiling as a method of cooking

.....

.....

.....

.....

- (c) State **two** disadvantages of boiling as a method of cooking

.....

.....

.....

-
- (d) List **ten** food items that can be cooked using the boiling method

.....

.....

.....

.....

.....

- (e) List **two** examples **each** of food items which can be prepared with the following methods of cooking

METHOD OF COOKING	EXAMPLES
Stewing	
Frying	
Poaching	
Steaming	

- (f) Plan a two course lunch menu for an adolescent using meat for the main dish and provide a suitable dessert

.....

.....

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.....

.....

.....

4. (a) The passage below describes the threading of the sewing machine. Fill in the blank spaces with the appropriate words selected from the list below

balance wheel, spool pin, needle, tension disc, thread, reel, take-up-lever, second, first thread guide

Place the of thread on the Turn the so that the needle is at the highest point. Pass the thread through the at the top of the machine. Draw the thread through the to the Pass the thread through the thread guide and finally through the eye of the

(b) Mention the **main** types of sewing equipment

.....

.....

.....

(c) Give **two** examples of each type of sewing equipment mentioned in 4 (b) above

.....

.....

.....

(d) What is microwave cooking?

.....

.....

.....

(e) List **four** food items which can be cooked in a microwave

.....

.....

.....

.....

(f) State **one** reason for using microwave to cook

.....

.....

(g) State **two** advantages of microwave cooking

.....

.....

.....

.....

(h) State **two** disadvantages of microwave cooking

.....

.....

.....

.....

June 2014

BASIC DESIGN AND TECHNOLOGY 2 (Home Economics 2)

Essay ANSWERS

1. (a) State the **main** method for cooking the following foods:

- (i) rice - boiling
- (ii) cake - baking

(b) State **four** suitable methods for preserving fish.

- Drying
- Smoking
- Freezing
- Salting
- Frying
- Canning

(c) (i) List the type of pencil **most** suitable for the following operations:

OPERATION	PENCIL USED
Lettering	HB
Drawing outlines	H, 2H
Shading	2B or BB , 3B, 4B, 5B, 6B

(ii) List **four** methods of recording data for solving design problems.

- Taking notes / Using computer
- Taking photographs
- Video recording
- Audio recording
- Drawing / sketching
- Drawing graphs
- Making charts

(d) (i) State **three** benefits of packaging.

- It adds value to the product
- It protects the product from contamination
- It protects the consumer from hazards
- Attracts consumers
- Makes handling easier / makes it portable
- Promotes easy identification.

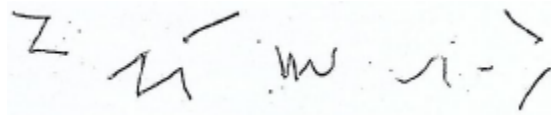
(ii) List **two** important information on a good package

- Information about content / manufacturer
- Date of production
- Expiry date
- Instructions for usage

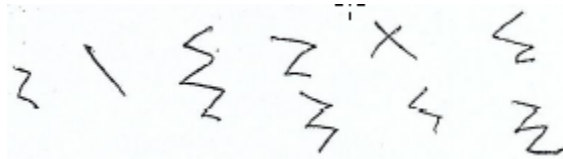
(e) Draw a line to illustrate **each** of the following:

(i) movement

Any line apart from horizontal or vertical lines, eg



(ii) texture.



SECTION B

[50 marks]

*Answer **two** questions **only** from this section*

All questions carry equal marks

1. The sketch below shows the style of a blouse Afua decides to make for sale.



- (a) State **five** processes that will be used in making up the blouse.

Arrangement of fullness

Collar making

Openings

Seam making

Fastening

Neatening

- (b) State **five** cotton fabrics that can be used in making the blouse

Denim.

Sateen.

Calico.

Poplin.

Muslin

Flannel

- (c) The cost of making one blouse is GHC 2.50. Work out the cost of fifteen blouses.

Cost for one blouse = GHC 2.50

Hence, cost for fifteen blouses = 15 x GHC 2.50
= GHC 37.50

- (d) If Afua sells one blouse at GHC 3.75. Work out the **total** profit for the fifteen blouses

Profit = Selling price – Cost price

Profit for 1 blouse = GHC 3.75 – GHC 2.50
= GHC 1.25

Hence, profit for 15 blouses = 15 x 1.25
= GHC 18.75

2ND METHOD

$$\begin{aligned}\text{If selling price for 1 blouse} &= \text{GHC } 3.75 \\ \text{Then, selling price for 15 blouses} &= 15 \times \text{GHC } 3.75 \\ &= \text{GHC } 56.25 \\ \text{Hence, Profit for 15 blouses} &= \text{Selling price} - \text{Cost price} \\ &= \text{GHC } 56.25 - \text{GHC } 37.50 \\ &= \text{GHC } 18.75\end{aligned}$$

2. (a) What is *boiling* as a method of cooking?

Boiling is a method of cooking food in boiling water in a saucepan with a fitting lid at a temperature of 100 degrees Celsius

- (b) State **two** advantages of boiling as a method of cooking
Boiled foods are easily digestible.

It is economical

- (c) State **two** disadvantages of boiling as a method of cooking
Boiled foods are usually not attractive unless garnished.

Boiled foods go bad quickly, if not preserved well.

- (d) List **ten** food items that can be cooked using the boiling method
...Rice, banku, plantain, yam, cocoyam, cassava, potato, fish, meat, egg, maize, cowpea

- (e) List **two** examples **each** of food items which can be prepared with the following methods of cooking

METHOD OF COOKING	EXAMPLES
Stewing	Meat, carrots, cucumber, tomatoes
Frying	Fish and meat, yam, plantain
Poaching	Eggs and fish,
Steaming	Kenkey and fish, carrots, cucumber

- (f) Plan a two course lunch menu for an adolescent using meat for the main dish and provide a suitable dessert

Main meal (1st course): Brown beef stew and boiled rice.

Dessert (2nd course) : Pineapple upside down

ALTERNATIVE

Main meal (1st course): Mutton palmnut soup and fufu (pounded cassava and plantain)
Dessert (2nd course) : Sliced oranges

ALTERNATIVE

Main meal (1st course): okro stew with goat meat and banku
Dessert (2nd course) : mango juice

3. (a) The passage below describes the threading of the sewing machine. Fill in the blank spaces with the appropriate words selected from the list below

balance wheel, spool pin, needle, tension disc, thread, reel, take-up-lever, second, first thread guide

Place the ...**reel**... of thread on the ...**spool pin**.... Turn the ...**balance wheel**.... so that the needle is at the highest point. Pass the thread through the ...**first thread guide**.... at the top of the machine. Draw the thread through the ...**tension disc**..... to the ...**take-up-lever**.... Pass the thread through the ...**second**.....thread guide and finally through the eye of the ...**needle**..

- (b) Mention the **main** types of sewing equipment
Large sewing equipment
Small sewing equipment
- (c) Give **two** examples of each type of sewing equipment mentioned in 4 (b) above
Large equipment examples: ironing board and sewing machine.
Small equipment examples: tape measure, scissors, thread and needle
- (d) What is microwave cooking?
Is a method of cooking and reheating food by means of electromagnetic waves in a micro wave oven powered by electricity.
- (e) List **four** food items which can be cooked in a microwave
Potatoes, Carrot, Meat, Fish, Oats, rice, beans, maize
- (f) State **one** reason for using microwave to cook
It cooks food fast,
It is easy / convenient to use.
- (g) State **two** advantages of microwave cooking
If properly set, it needs less attention

Food nutrients are conserved.

- (h) State **two** disadvantages of microwave cooking
- The oven is expensive.
 - Food can be dried when not covered properly.
 - It cannot be used where there is no electricity