

FREE VIRTUAL MOCK EXAMINATION (5)
MAY 2020
BASIC DESIGN
AND
TECHNOLOGY
(HOME ECONOMICS)
ESSAY and OBJECTIVE
 1 hour 55 minutes

2&1

CANDIDATE'S NAME	
INDEX NUMBER	DATE
SIGNATURE	CENTER NUMBER

GB ASSESSMENT TEST (GBAT)

FREE VIRTUAL MOCK EXAMINATION (5)

MAY 2020

BASIC DESIGN AND TECHNOLOGY
(HOME ECONOMICS 2&1)

1 hour 55 minutes

[70 marks]

DIRECTION TO CANDIDATES

- All answers must be provided on clean sheet of papers (Answer booklet).*
- Write your name and index number on the sheets.
- This booklet consists of only paper 2. Paper 2 is in two sections; I and II. Answer three questions only; Question 1 in part I and two questions from part II. Answer paper 2 & 1 in the answer booklet. Paper 2 will last for 1 hour 15 minutes.
- Write the NUMBER OF QUESTIONS YOU HAVE ANSWERED in the order in which you have written them at the bottom of your answer sheets.

DESIST FROM REFERING TO BOOKS BEFORE

DESIST FROM REFERING TO BOOKS BEFORE PROVIDING ANSWERS

#COVID-19. STAY HOME. STAY EDUCATED.

FOR EXAMINERS USE ONLY	
Question Number	Marks
TOTAL	

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NUMBER YOUR ANSWERS

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This paper consists of two parts, part I and II. Answer all questions in part I and any other two questions in questions in part II. Write your answers in the spaces provided after each question.

SECTION A-CORE SKILLS - [20 marks]

Answer Question 1
[COMPULSORY]

1. (a) i. Explain the term food commodities. [1 mark]

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ii. Give **three (3)** reasons why overcooking of food should be avoided. [1.5 marks]

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(b) i. Sketch a square pyramid. [1.5 marks]



ii. List **four (4)** equipment used in technical drawing. [2 marks]

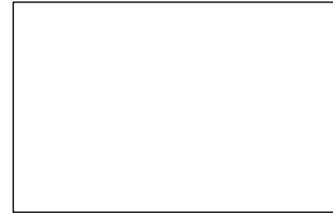
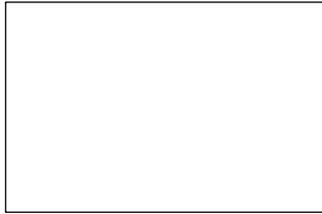
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(c) i. Draw a line to illustrate each of the following ideas they symbolize: [3 marks]

Concentric

spiral

diverging



ii. List **four (4)** principles of design. [2 marks]

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iii. State **four (4)** methods of shading an object. [2 marks]

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(d) i. Name **four (4)** types of lines for design work. [2 marks]

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4. (a) i. A tailor is to sew a school uniform for an eight-year-old girl. List **five (5)** factors to consider when selecting the fabric for the uniform. [5 marks]

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ii. State **five (5)** features that can be used to make the school uniform. [5 marks]

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(b) List **one (1)** suitable seam that could be used in making a night wear. [1 mark]

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(c) State **two (2)** reasons for renovating and remodeling articles. [2 marks]

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(d) State **two (2)** functions each of the following sewing tools and equipment. [5 marks]

i. Tape measure

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ii. Shears

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iii. Dressmakers pins

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iv. Working table

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v. Electric iron

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(e) List the main nutrients in the following food items. [5 marks]

i. lemon.....

ii. Yam.....

iii. Soya beans.....

iv. Margarine.....

v. Carrot.....

(f) Explain secondary colours. [2 marks]

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Answer **all** the questions.

Each question is followed by **four** options lettered A to D. Find the correct option for each question and shade **in pencil** on your answer sheet the space which bears the same letter as the option you have chosen. Give only **one** answer to each question.

1. Which of the following projections shows views in two – dimensions?
 - A. Isometric
 - B. Oblique
 - C. Orthographic
 - D. Perspective
2. A short statement which describes what a designer intends to design and make is termed as
 - A. analysis
 - B. brief
 - C. situation
 - D. specification
3. Which of the following serves as a source of energy for a torch light?
 - A. Bulb
 - B. Capacitor
 - C. Cell
 - D. Inductor

Use the sketch in figure 2 to answer questions 4 and 5

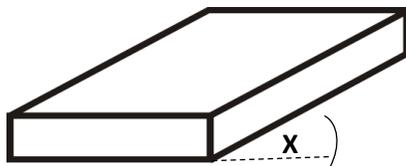


Fig. 2

4. The object is projected in
 - A. oblique
 - B. isometric
 - C. one -point perspective
 - D. two- point perspective
5. The angle marked x is
 - A. 15°
 - B. 30°
 - C. 45°
 - D. 60°

6. The factor to consider when specifying for size of a unit is
 - A. appearance
 - B. construction
 - C. function
 - D. ergonomics
7. An advantage of electric sewing machine is that
 - A. it can be used everywhere
 - B. both hands are free to control the work
 - C. it is inexpensive
 - D. the top can be used as a cutting surface
8. A suitable fruit for making jam is
 - A. guava
 - B. grapefruit
 - C. watermelon
 - D. orange
9. The process of tearing or mending faults such as breaks and tears in clothing is referred to as
 - A. remodeling
 - B. patching
 - C. darning
 - D. renovation
10. The methods of cooking that are commonly used in Ghana are
 - A. steaming and boiling
 - B. boiling and frying
 - C. baking and boiling
 - D. boiling and roasting
11. Drawing and painting are grouped under
 - A. two- dimensional work
 - B. three- dimensional work
 - C. landscape
 - D. still life

12. Any two primary colours mixed together in equal proportions produce a
- complementary colour
 - secondary colour
 - tint colour
 - neutral colour
13. Identify a drawing tool from the following items
- crayon
 - paper
 - palette
 - ruler
14. Select a neutral colour from the options below.
- Blue
 - Orange
 - Red
 - White
15. A vertical line is associated with
- movement
 - rest
 - stability
 - uncertainty
16. The best garnish for fried fish is
- orange
 - carrot
 - cucumber
 - lemon
17. The best seam to use on a fine fabric which frays easily is
- french seam
 - plain seam
 - overlaid seam
 - double stitched seam
18. An important factor to be considered when choosing an opening and fastening is
- height of the wearer
 - style and position of the openings
 - style and size of wearer
 - shape of the face of wearer
19. In the preparation of jams and marmalades, fruits should be
- fibrous
 - under-ripe
 - bruised
 - just ripe
20. Features which allow garments to be put on and off quickly and easily are
- opening and fastenings
 - continuous wrap
 - buttons and buttonholes
 - hook and eyes
21. A suitable seam for the side of a denim pair of trousers is
- open seam
 - french seam
 - overlaid seam
 - double- stitched seam
22. An example of a large equipment is the
- deep freezer
 - microwave oven
 - boiling pan
 - food mixer
23. Convection method of heat transfer mainly occurs in
- baking
 - steaming
 - grilling
 - poaching
24. A vegetable with high percentage of protein is
- cowpea
 - agushie
 - kontomire
 - soyabeans
25. An example of a citrus fruit is
- orange
 - guava
 - pear
 - pineapple

26. A method of cooking where heat is transferred directly onto the food is

- A. roasting
- B. baking
- C. grilling
- D. poaching

27. An example of a decorative method of controlling fullness is

- A. pleats
- B. darts
- C. locks
- D. tucks

28. The daily protein requirement for a toddler should be adequate because it is needed for

- A. development

B. maintenance

C. repair

D. energy

29. An important factor to consider when choosing a refrigerator is

A. availability of space

B. brand name

C. colour scheme

D. easy to use

30. When boiling soup pours on the body, it causes

A. bruises

B. burns

C. scald

D. cuts

