**FORM 4**

**END OF TERM 2 2022**

**HOME SCIENCE**

**TIME: 2⅟2 HOURS**

**MARKING SCHEME**

1.State two benefits of Home science to the community. (2m)

* One acts as a role model.
* Renders services to the nation.
* Acts as a resource person in the relevant areas eg. diet.

2. Name two commonly used types of vacuum cleaners. (2m)

* Flat bottom.
* Cylindrical
* Round.

3. Mention two advantages of owning a house. (2mks)

* Offers a sense of belonging and ownership
* Can be used as security for loans.
* It is an investment itself.

4. Suggest three preventive measures against cholera. (3m)

* Proper disposal of human waste to prevent water contamination.
* Locate latrines away from water sources.
* Treat/boil water for domestic use.
* Infected persons should be treated.
* Equip. used by patients should be isolated & sterilized.

5. State two properties of second class proteins (2m)

* They lack one or more of the essential amino acids.
* Are commonly obtained from plant sources except soya beans.

6. Point out three dangers of excess weight gain during pregnancy. (3m)

* Can cause stretch mark.
* Can cause varicose veins.
* Increase fatigue in an exp. Mother.
* It increases risk of H.B.P.
* The foetus becomes too big &leads to complicated delivery.
* May be difficult to reduce wt. even after delivery.

7. Give two situations when a lactating mother produces little or no milk at all. (2m)

* Poor diet.
* Emotional stress.
* Insufficient rest.
* Lack of sleep.

8. Point out three importances of adverts to consumers. (3m)

* Informs on availability of goods & services.
* Quick & effective way of information about a new product.
* Provides info on varieties on products.
* A good advert. Provides additional info about a product.

9. Give two functions of cholecalciferal in the body. (2m)

* Formation of strong bones & teeth.
* Prevents occurrence of rickets in children and osteomalacia in adults.

10. name four known methods of serving meals at home. (2m)

* Plate service.
* Family table “
* Buffet “
* Tray “

11. List down two main determinants of safe parenthood (2m)

* Meeting the nutritional needs of the exp. Mother
* Social prep. Of the exp. Mother
* Psychological prep.
* Correct age of the parents.
* HIV (VCT) test.

12. Highlight on two advantages of hire purchase (2m)

* The consumer is able to get immed. Use of the article.
* Consumer requires the item after paying a deposit.
* One receives other services like repair & maintenance upon payment.
* One is able to buy items that they would have managed by savings
* Purchase of a durable item becomes an immediate saving for the family.

13. State two functions of pressing clothes. (2m)

* Removes creases.
* Restores them to original shape.
* Ensures complete drying of articles .

14. Give two qualities of to look for when choosing a tape measure. (2m)

* Should be clearly marked on both sides
* Metalic ends.
* Firmly woven and plastic coated to avoid fraying and stretching.

15. Differentiate between food fortification and food supplements. (2m)

 Food fortification:- Introduction or addition of food nutrients into a give food while food supplements are alternative sources of food nutrients.

16. Mention two situations that may affect a budget. (2m)

* Loss of income.
* Increase in income.
* Change in personal/family goals.
* Lack of commitment in following it.
* Inflation.

17. State three disadvantages of consuming canned foods (3m)

* The process may ate the texture & flavour.
* High temps,. Use damage vits. B group.. lowering the nut value.
* Can cause food poisoning or a result of any flaw in the container.

18. Point out two roles played by eggs in flour mixtures. (2m)

* Add nutritive value.
* Improves flavour.
* Improves colour
* Aeration.

Used as a raising agent/traps air.

**SECTION B 20MKS (COMPULSORY**

Explain how to go about each of the following tasks..

Cleaning a paraffin stove

Collect the equipment and material required.

* Protect the working surface
* Remove the movable parts
* Empty he paraffin
* Remove the wicks
* Dust with a dry duster
* Wash using warm soapy water
* Remove stains using mild abrasive
* Rinse severally using warm water
* Dry with a clean dry cloth
* Buff to shine
* Wash the wicks in hot soapy water
* Rinse in warm water
* Final rinse in cold water
* Dry in the sun
* Trim the wicks
* Refill
* With paraffin
* Replace the wicks and the movable parts
* Cleaning all equipment used and store appropriately. (9mks)

 Any well written points ,systematically.

(b) Launder your nylon raincoat in readiness for camping (7mks)

* Soak (1/2) in cold water (1/2) for a short time
* Wash in warm soapy water (1/2) using kneading and squeezing method (1/2) to remove all traces of dirt(1/2)
* Rinse severally in warm water(1/2)
* Rinse in cold water (1/2)
* Add frabric conditioner in the final cold cold rinse (1/2)
* Drip dry (1/2) in the shade (1/2)
* Iron using warm iron (1/2)
* Air to dry completely (1/2)
* Fold (1/2) and store in a clean dry place (1/2)

(c) clean an aluminum cooking pan (4mks)

* Rinse/soak in clean water
* Clean in warm soapy water using abrasive/steel wool.
* Clean in the same direction
* Rinse in warm water
* Wipe to dry using non fluffy dish cloth or drip on a rack then dry later.

**SECTION C 40MKS)**

Answer only 2 out of the 3 questions in this section.

20(a) Explain five properties that make polyester fabric suitable for making school uniforms. (10m)

* It is strong and hardwearing, thus can withstands frequent washing.
* Takes dyes easily ; available in different colours required.
* Easy to launder – stains are easily
* Removed, withstands most cleaning agents
* User friendly coz. It Is resistant to shrinking & abrasion, creasing and stretching
* Requires little or no ironing.

(b) Outline five reasons why weaning a baby too early is discourged. (5m)

* The baby’s digestive system is not able to process the new foods.
* May lead to stomach upsets.
* Denies the baby bonding with the mother.
* Weaning foods may not be well balanced hence gets inadequatw nutrients for proper growth.
* It may reduce the frequency of breastfeeding.
* Baby may refuse the food.

(c) Explain five points to consider when choosing colours in a room. (5m)

* Use of the room: - well explained.
* Effect desired
* Personal taste
* The size of the room
* The existing décor.

21(a) Outline five points to bear in mind when choosing and purchasing furniture. (5m)

* The furniture should be made from a longlasting/ durable material to withstand wear and tear
* Strongly and firmly constructed.
* The height should be comfortable.
* Of affordable cost.
* Size should correspond with the size of the room.
* The colour should match the colour scheme of the room.

(b) List down five qualities of a well made collar (5m)

* Should be made of the correct size and shape.
* Should lie flat and smooth on the neckline.
* Shd. Be symmetrical on both sides
* The corners shd. Be well rounded ahd shd. Have a good knife edge.
* Shd. be neatly stitched a d topstitched.
* “ “ interfaced on the undercollar.

(c) Point out five ways in which the consumers right may be violated by sellers or manufacturers. (5m)

* Charging unfair prices of goods and services
* Providing goods of substandard quality.
* Hoarding of goods by some sellers
* False and incorrect adverts,selling goods that are not sage eg. expired food products etc.

d) Outline five dangers associated with poor ventilation in a house. (5m)

* Suffocation due to inadequate supply of oxygen.
* Eases in spread of communicable diseases
* Discomfort that may be caused by heat and humidity.
* Fainting caused by lack of 02
* Drowsiness, leading to accidents and injuries.

22(a) Using relevant diagrams, give the procedure for making a double stitched or machine fell seam.

 (10m)

* Place 2 pcs of fabric w.w facing and F.L matching., pin and tack along the F.L
* Remove tacking and press
* Trim back turning to 6MM and the front one over to the back to form the fell.
* Press the fell to lie on the back of the garment.
* Tack and machine close to the fold thro’ the layers.
* Remove tacking and press the complete seam.

 Explanation - 7mks

 Diagrams - 3mks (10mks)

(b) Point out five qualities of a good disinfectant. (5m)

* Kills a wide variety of germs.
* Chemically stable and affective.
* Penetrates well into cracks.
* Does not affect the person using it
* Has a pleasant smell.
* Is aesthetically acceptable/good colour.

(c) Explain five factors to consider when planning and serving meals for children. (5m)

* The diet should be balanced.
* Provide variety of food from which they can choose.
* Should have crunchy and crispy foods that require plenty of chewing .
* Serve in small quantities to encourage 2ndhelping
* Present attractive for enjoyment.
* Serve at regular intervals and punctually.
* Give fluids live clean boiled water and fruit juices to acid digestion and to replace lost fluid during play.

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