**441/ 1**

**HOME SCIENCE**

**PAPER 1**

**JULY / AUGUST 2019**

**MARKING SCHEME**

**SECTION A (40MARKS)**

1. Dangers of misuse of cosmetics (2 marks)

-skin damage/cancer/destroy

-skin irritation/rash

-eye problem

-kidney problem/mercury

-loss of hair/hair damage

2. Factors to consider when building a family house (2 marks)

 -the house should be affordable

 -the house should be near social amenities eg. Place of work

 -fit the size of the family

 -personal tastes & preferences

3. Use of the following tools in the kitchen. (2 marks)

 i) Meat tenderizer

 -tool used in making meat tender

ii) Paring knife

-used to cut fruits into various shapes

4. Dangers of incorrect disposal of polythene bags (2 marks)

 -can lead to outbreak of diseases eg. Cholera due to poor sanitation

 -can cause pollution of land, water and air because they don’t decompose

 -can cause death to animals when eaten.

 -can cause suffocation to children when they put them on their heads.

5. Precautions to take in order to avoid fire accidents in the kitchen (2 marks)

 -children should not be locked in the house alone.

 -hot stoves should be kept out of the way of children.

 -people should not smoke in bed.

 -candles should be put on stand/holder not be kept unattended to.

 -ma should be stored out of reach of children.

6. Desirable qualities of a kitchen floor (2 marks)

 -should not be slippery

 -warm to the feet

 -resistant to grease stains

 -easy to clean

 -should have a smooth surface/even

 -should be durable/long lasting

 -heat resistant

7. Terms in cookery (2 marks)

 i) Basting

 -a practice that oil or liquid is applied on the surface of foods to keep them moist.

ii) Simmering

-cooking foods slowly under low temperature than the boiling point

8. Reasons which make light weight cotton suitable for beginners in sewing. (2 marks)

 -easy to press

 -not slippery

 -doesn’t fray easily

 -strong therefore can withstand undoing wrong procedures

 -easy to stitch

 -it is cheap

 -easily available

 -withstands high temperatures

9. Uses of running stitches. (2 marks)

 -to make gathers

 -to make run & fell seam

 -for decorative purpose

 -to join two pieces of fabric together temporarily

10. Reasons why synthetic detergents are popular for laundry. (2 marks)

 -easily available

 -Cheap

 -additives can be introduced/builders/perfumers/bleaches/Colour

 -versatile in use

 -has a higher cleaning power

 -they are in many varieties/wide variety/range

 -do not form scum

11. Symptoms of marasmus (2 marks)

 -head looks bigger than the rest of the family

 -extreme thinness

 -eyes look alert

 -no fat under the skin

12. Roles of vitamin D. (2 marks)

 -assist in utilization/absorption of calcium and phosphorous

 -for the formation of strong bones and teeth /prevention of rickets/osteomalaria

 -aids in growth

13. Preparations to make on commercial paper patterns before laying (2 marks)

 -sort/select the ones required

 -Press to remove creases

 -separate the pieces/trim off unnecessary parts

 -make any alterations if required

14. Methods of neatening raw edges. (2 marks)

 -loop stitch

 -overcasting

 -Edge stitching

 -blanket stitch

 -machine overlock zigzag

15. Terms (2 marks)

 i) Ventilation

 - Ventilation is the process of introducing and circulating fresh air in a room to eliminate undesirable gases and let in flesh air

 ii) Convenience foods.

 -term describing foods that have been either partially or completely processed by food manufacturers.

16. Disadvantages of complementary feeding during weaning. (2 marks)

 -may lead to allergies

 -the baby may be too full of breast milk to feed on anything extra

17. Points to look for when choosing a toy for a child (2 marks)

 -easy to clean

 -big enough not to swallow

 -washable

 -strong to last longer

 -unpainted as some paints are poisonous

 -suitable to the age of the child

 -unpointed/not sharp to prevent injury

18. Methods of incorporating air mechanically into floor mixtures. (2 marks)

 -sieving

 -whisking

 -beating

 -rubbing in

 -creaming

 -folding

19. Reasons why labels are important to a consumer (2 marks)

 -give correct information to the consumer to avoid damage on use of products

 -assist in the selection of products in the market according to use and care

 -saves time and energy as if it is informative

 -care of the product is given on the label.

20. Roles of the shank in the garment construction. (2 marks)

 -It accommodate the thickness of the fabric

 -It allows movement of the button between the button and the garment.

 -It prevents tearing of the fabric/button stand/to stop straining.

 -To ease fastening/to help buttoning

**SECTION B (20 MARKS)**

**21. (a) Cleaning a glass window.**

- Collect cleaning equipment and materials required to save time (½)

 - Dust (½) the window all over to remove loose dirt (½) with a dry a piece of cloth

 - Wipe the window sill (½) with warm soapy (½) water to remove dirt (½) with a cloth (½) wrung out of water

 - Rinse (½) with a cloth wrung out of clean water to remove all traces of soap (½)

 - Clean the glass (½) with warm soapy (½) water starting from the upper section (½) a small section at a time with a cloth wrung (½) out of the water to remove dirt (½).

 - Rinse (½) with a cloth wrung out of clean (½) water a small section at a time to remove (½)

 - Finally rinse (½) with a cloth (½) wrung out of clean (½) water to freshen (½)

 the window.

 - Buff (½) the window with old newspaper (½) to shine (½) the window.

 - Cleaning the equipment used and store appropriately ½

 (½x 20=10 marks)

**b) Laundering loose coloured cotton T-shirt**

i) Collect cleaning equipment and materials needed to save time (½)

ii) Do not soak ½

iii) Wash very fast ½ in warm ½ soapy water ½, wash using kneading and squeezing½ method to remove dirt½

v) First rinse in clean warm water ½ to remove soap and dirt ½

vi) Final rinse in cold ½ water to which salt (½) has been added to fix Colour ½ and some

 Vinegar (1) to brighten, do not ring ½

vii) Flat dry under the shade ½

viii) Iron while still slightly damp using a warm iron ½

ix) Air to remove excess moisture ½

x) Fold and store appropriately ½

xi) Clean equipment used and store appropriately ½ (½x20=10 marks)

**SECTION C (40MARKS)**

**Answer any TWO questions from this section**

22. (a) Ways of saving energy when performing household tasks. (8 marks)

-use of time and labour saving equipment.

-have a plan of work to avoid repetition of work

-preparing well for each task

-start with heavy tasks then finish with light ones.

-dovetailing tasks when possible

-using efficient tools to perform tasks e.g sharp knives.

 (b). Reasons for using soft furnishing in the home. (4 marks)

-decoration; they add beauty

-privacy eg curtains screen windows at night and daytime

-comfort eg pillows and cushion supports body when sitting.

-protection eg bedcovers and chair covers protect expensive upholstery and beddings against wear tear and dirt

-for easy maintenance eg loose covers are easy to launder than dry cleaning upholstery furniture.

-to improve appearance of furniture and improve their appearance.

-filtering excessive light eg curtains control amount of light entering the room during daytime.

-for warmth and reduction of noise eg carpets reduce noise and add warmth to rooms.

 (c) i) Factors that contribute to a well made hem. (4 marks)

-ensuring that the hem is accurately marked

-ensuring that the raw edges are appropriately concealed/neatened

-ensuring that the stitchery is firmly done

-ensuring that the stitchery is inconspicuous on the R.S unless decorative

-ensuring that the hem is well pressed

-ensuring the correct stitchery correct tension

 ii) Below is a pattern of a skirt. Label the parts. ( 4 marks)

A -Dots

B -Single dart

C- Notch

D -Place on fold

23. (a). Suitable examples, describe the **four** types of play. (8 marks)

-Physical play- it involves use of different body muscles eg running, jumping and climbing

-manipulative play – it involves use of limbs eg playing with sand ,water, seeds, soil e.t.c to give enjoyment and learn concept of size, volume, shape and Colour of objects.

-Creative play – it helps in coordination of hands and eyes eg painting, colouring , modeling and paper cutting.

-Imaginative play – it helps the children act their feelings and fantasies eg pretending to be father, mother, teacher, nurse etc

 (b) Reasons for pressing during garment construction. (4 marks)

-to remove creases

-to ensure accurancy

-to give a professional finish

-ensure flatness

-to bring out sharp corners and good knife edge

 (c) i) Factors to consider when planning packed meals. (4 marks)

* The meals should be balanced to meet dietary requirements
* Packing containers should be available
* Include a nutritious drink since packed meals tend to be very dry
* Plan for meals that are easy to pack and eat without cutleries
* Plan for cold foods when it is hot and hot foods when it is cold

 ii) Methods of credit buying. (4 marks)

* Hire purchase-This is instalment credit in which goods are obtained after paying a certain percentage of cost price as a deposit. The balance is then paid through equal instalments over a period of time.
* Use of credit cards-

This is a method in which the consumer uses a card to buy goods and services and payment is done from consumer’s bank account

* Simple non-instalment credit.-

 In this method, the consumer obtains goods and services for a period of time and then pays up when the bills arrive. (Any two-2 by 2= 4marks)

24. (a) Functions of water in the body. (6 marks)

- It helps in digestion of food and keep the digestive system moist.

- It maintains the body temperature through perspiration.

- It dissolves food facilitating absorption of food.

- Water contains minerals that help in formation of strong bones and teeth.

- It helps in excretion of waste from the kidney and transport of the same.

- It helps in formation of body fluids which lubricates body surfaces (2x3 = 6mks).

 (b) Advantages of using a refrigerator in the home. (8 marks)

* It reduces wastage as cooked foods can be kept for another day and perishables do not go bad
* Food can be kept in bulk reducing the need for frequent trips to the market.
* Food remains are not contaminated and are safe to eat
* Cold dishes and juices are available in hot weather and are quite refreshing
* Meals can be planned and prepared in advance for later cooking

 (c) Qualities of a well made dart. (6 marks)

* It tapers gradually to a point
* It is firmly secured at the end
* It has correct length and width
* It is pressed to the right direction
* It is stitched straight along the stitching line
* It is inconspicuous on the right side
* It should lie flat
* It should be firmly fixed