**END TERM 2 2022 HOME SCIENCE FORM 4 PAPER 1 (441/1) THEORY**

**MARKING SCHEME**

**Section A**

**1.Defintion of care labels as used in textiles**

Tags attached on readymade garments(1) which give instructionon how to treat (1) garments during laundry

**2. Examples of conspicuos seams**

Overlaid seam

Machine fell

Run and fell (any 2x 1= 2mks)

**3. Reasons for timely repair of clothes**

- for them to last long

-To make them neat

-To prevent further tear/wear (3x1= 3mks)

4. **factors determining the efficiency of a laundry detergent**

-temperature of the water

-Type of water

- mechanical action applied/method of washing

- Time used in washing

- builders present/cleansing power of the detergent (any 3x1= 3mks)

**5. causes of suffocation at home**

-inhaling leaking gases

-inhaling carbon monoxide from a jiko in a poorly ventilated room

- children covering the head with polythene bags

-smoothering objects/pillows/cushions (any 2x1= 2mks)

**6. types of kitchen plans**

U- plan Corridor plan

L- plan

1-wall plan (any 4x1/2= 2mks)

**7. differentiating between food spoilage and food poisoning**

Food spoilage is the deterioration of food due to contamination while food poisoning is an illness caused by consumption of spoilt food

Well differentiated = 2mks

**8. Reasons why cotton is sutable for undergarments**

 Strong to withstand constant washing

Absorbent

Warm/Good conductor of heat

Does not generate static electricity

Resistant to high temperatures/sterilised by boiling

Withstands washing detergents/stain removing agents, easy to remove stains

(any 3x 1= 3mks)

9. **Qualities of a handsewing needle**

-Should be stainless

-should be sharp

-should be suitable for the work

-Have a smooth eye

-Easy to thread (any 2x1= 2mks)

10. **Examples of temporary stitches**

- Even tacking long and short tacking

-basting /diagonal tacking

Tailors tack

-Thread marking

**11. Vaccines that are administered at birth**

Oral polio vaccine

BCG vaccine (2x1= 2mks)

**12. Ways of incorporating air physically into flour mixtures**

- sieving flour beating batter

- whisking eggs creaming fat and sugar

-Rubbing in fat into flour Folding pastries (any 3x1=3mks)

**13. Ways of controlling fullness on a school skirt**

Darts

Pleats (2x1= 2mks)

**14. Disadvantages of using credit cards when buying goods**

- Charge interest on the credit taken especially incase of default

-Encouranges overspending

-Encouranges impulse buying

- Most people are not eligible to use it as means of payment

- Limited goods/services can be bought usong the card (any 3x1=3mks)

**15. Examples of soft furnishings in the bedroom**

Pillow case lampshades

Bedcover mats/carpets

Curtains

 Mosquito nets (any 4x1/2=2mks)

**16. Principles applied in food preservation**

Application of heat

Exclusion of air/oxygen

Exclusion of moisture

Application of sugar/salt/acid/chemical preservative

Freezing (any 3x1=3mks)

**17. Reasons for food fortification**

- Introduce additional nutrients

-Improve the appearance of food

-Prevent nutritional disorders

-Vary the texture

-Vary the flavour (any 3x1=3mks)

**Section B**

**18.a) procedure of sponging a heavy dark colored woollen sweater using an already prepared sponging solution**

Collect the necessary equipment and materials(1/2)

Shake(1/2) the sweater to loosen dirt

Take measurements(1/2) and record

Spread (1/2)on a clean surface

Using a cloth (1/2)wrung from the sponging solution, wipe (1/2)the sweater a section (1/2)at a time overlapping(1/2) the sections, starting from the wrong side (1/2)towards the right side. Pay attention to double sections(1/2)

Rinse(1/2) thorougly (1/2)with a cloth(1/2) wrung from clean (1/2)warm water

Flick out /Squeeze out (1/2)excess solution

Take measurements(1/2) and make necessary adjustments if any

Dry(1/2) flat (1/2)in an airly place under the shade(1/2)

Press (1/2)while slightly damp(1/2) indirectly (1/2)with a warm(1/2) iron

Air (1/2)to dry completely

Fold and store (1/2)with the help of moth balls(1/2)

Clean equipment used dry, store(1/2) (max18/2=9mks)

**b) Cleaning of a plain wooden rolling pin previously used in rolling dough**

Collect the necessary equipment and materials(1/2)

Clean in warm(1/2) soapy water with a soft cloth/scouring pad(1/2)

Rinse (1/2)thoroughly(1/2) in clean (1/2)warm water

Final rinse(1/2) in clean(1/2) cold water

Wipe(1/2) to dry

Dry completely (1/2) in a warm(1/2) airly place

Store(1/2) appropriately

clean equiment used dry, store(1/2) (Max 10/2=5mks)

**c) the procedure of sweeping the cemented bedroom floor**

Collect the necessary equipment and materials(1/2)

Remove light furniture/clear the floor(1/2)

Close the windows(1/2)

Using a sweeping broom, sweep with long low strokes(1/2) , standing behind(1/2) the broom a section(1/2) at a time , overlapping (1/2)the sections, from the furthest end (1/2)towards the door. Avoid lifting (1/2)the broom.

collect dirt(1/2) in a dustpan and dispose(1/2) appropriately

Rearrange (1/2)the furniture

Dust(1/2) the surfaces methodically

 Clean equipment used, dry, store(1/2) (max12/2=6mks)

**Section C**

**19.a) ways through which safe parenthood is achieved for expectant mothers**

Meeting the nutritional needs of the mother i. e ensure the mother receives a balanced diet with extra nutrients such as iron, calcium, proteins etc

Social preparation by ensuring the motherenjoys support of the family and at work place throughout her pregnancy

Psychological preparation to ensure the mother has a positive mental attitude towards the pregnancy and is free from anxiety/worry

Voluntary counselling and testing to safeguard the health of the baby and mental well being of the mother

Correct Age of parenting (18-35 years)to minimise the risks of complications arising during child birth and after delivery (Any 3x 2= 6mks)

**b) Points cosidered when buying an electric iron box**

cost; it shouls be affordable

The sole should be smooth to avoid damaging clothes

Electricity should be available to power the iron

Should have a long flex for easy handling

Should be made of durable material to last long

Should be of appropriate weight for comfort/ to exert enough pressure on clothes

Should have a thermostat with clear indication on the appropriate temperature for different fabrics

The pilot light should be working. Test before purchasing to avoid buying a faulty one

Should be able to stand on its heel for ease of use (Any 4 x2= 8mks)

**c) Types of drainage at home**

Free drainage; Disposal of waste water away from the house anyhowly

Open/Semi-concealed; Disposal of waste water in gutters and ditches

Concealed; Disposal of waste water in pipes (any 3 x 2= 6mks)

**20.a Dry heat methods of cooking food**

Boiling; cooking food while copmletely immersed in hot boiling water

Steaming; cooking food using hot water vapour

Stewing; cooking food in limited amount of stock/water

Frying; cooking food using hot oil (any 3x2=6mks)

**b) Types of play in child development**

Physical play; play that exercises the muscles such as running, jumping climbing

Manipulative play; play that enables cordination of the limbs and eyes such as playing with sand small stones, water. The child learns things like size, volume, colours

Creative play; plays that enable the child to express himself, enables innovation and talent development such as painting, drawing, modellling etc

Imaginative play; Play that enables the child to express their feelings and emotions such as pretending to be a mother, father, pastor,teacher, musician. Enables the child to act out their feelings, likes, dislikes

(Any 3 x 2= 6mks)

**c) Reasons why breastfeeding is important to the baby**

- Breastmilk has most of the nutrients required by the baby for healthy growth in their correct proportions

- Breastfeeding strengthens the bond between the baby and the mother

- Breastfeeding is hygienic due to minimal handling of breastmilk minimising chances of infection

- Breastfeeding with colostrum boosts the babies immunity against childhood infections

-Breastfeeding can be done any time as the milk is readily availble hence the baby does not wait for long

- Breastmilk is always at the right temperature which is covinient for the baby (any4x2=8mks)

**21.a Reasons why consumer protection is important**

- Ensure goods in the market are of correct quality safeguarding the consumer from substandard goods

- ensure goods are of the right quantity; consumers are not exploited by buying enderweighed goods

-Safeguard the health of the consumer ; through banning sale of products of health risk/ withharmful ingredients. Advertisers should give information to warn consumers of the risks involved in consumption of products such as alcoho, cigarettes

-safeguard the consumer from hoarding of goods; traders hiding goods so that they are not availble for sale inorder to sell when their prices go up

-Ensure consumers are compensated incase certain products fail to work as they should; through issuance of warranties to consumers by traders.

- Ensure the prices of products are fair; consumers are not overcharged

-Eusures consumers get the right information about products; through prohibiting misleading, false advetisements/incorrect labelling of products. (any 3x2=6mks)

**b) Precautions taken when dry cleaning garments at home with commercial dry cleaning solvents**

-work in a well ventilated place as the solvent is poisonous when inhaled

-work away from open flames as the sovent is highly flammable

-Work quickly and seal the remaing solvent as the solvent is highly volatile

-Follow manufacturers instructions on use for efficiency / safety

- If necessary wear protective gear to avoid direct contact with the solvent/avoid inhaling the solvent

(Any 3x2=6mks)

**c) Styles of serving meals**

Buffet ; Different dishes presented in food warmers , to entertain a large number of guests in occassions

Family table service; food dished out in serving dishes and placed on the dining tablr for family members to serve themselves

Plate service; food dished out directly into the plate/platter

Tray service; food items presented on a tray (4x2= 8mks)