**MARKING SCHEME**

**ARISE AND SHINE**

**HOME SCIENCE (THEORY)**

**FORM 4 TRIAL 1 EXAM-2023**

**441/1**

**HOME SCIENCE (THEORY)**

**PAPER 1**

**SECTION A (40 MARKS)**

1. **State three positive effects of advertising to a consumer. [3 marks]**
* Informative
* Makes consumers aware of new products
* Entertainment
* Enables consumers make wise decisions
1. **Give two reasons for ensuring proper ventilation in a room [1 mark]**
* Complies with building regulations
* Ensures cooling hot areas
* Reduces damages to surfaces/materials due to dampness.
* Help remove body odours.
1. **Identify two functions of openings in garments. [1 mark]**
* For ease of weaning
* For ease of remove.
* Stylistic Feature and Fasque
1. **State two reasons why stainless steel is the best material for making knives[1 mark]**
* Do not rust
* Easy to sharpen
* Easy to clean
1. **Give two reasons for buffing shoes after polishing. (1 mark)**
* To maintain shape
* Easy to brush
* To maintain size.
1. **Mention four symptoms of scurvy [2 marks]**
* Bleeding gum
* Anaemia
* Weak blood capillaries which break easily
* Unhealthy skin
* General body weakness
* Wounds take long to heal.
1. **Name two vaccines that are given to a baby immediately after birth. [2 marks]**
* BCG
* Whooghing cough
1. **Identify four problems experienced by mothers while breastfeeding. [2 marks]**
* Inverted nipples
* Sore nipples/cracked nipples
* Breas engorgement
* Babies biting the mother’s nipples
* Breast abscess
* Baby refusing to breast feed
1. **State three advantages of convenience feeds. [3 marks]**

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1. **Give two reasons why fainting occurs. [1 mark]**
* Because of a temporary inadequate supply of oxygen( ½ ) to the brain ( ½ )
1. **State four rules to observe when making handmade button holes [2 marks]**
* Work on double material
* The size of the hole should correspond to the size of the button
* Cut through straight grain.
* Use sharp scissors to cut straight to avoid fraying thread
* Use strong sewing thread
* Stiches should be closed together to cover and hold the fraying threads.
1. **Give the importance of the ‘U’ or ‘S’ bend/trap in a sink. [1 mark]**
* It traps clean water which acts as seal to stop bad smell coming up from the drains into the house fitted with a cleaning eye opened to clean it.
1. **Give four disadvantages of steaming [3 marks]**
* Not suitable for cooking tough foods
* It’s dangerous i.e. may cause scalds.
* Requires much attention during cooking
* It is very slow
* Requires a lot of attention.
1. **State six factors that determine the repair method on a garment. [3 marks]**
* Size of tear
* Weight of fabric
* Method of fabric construction
* Cleaning method
* Effect desired
* Position of tear
* Type of garment/article
* The use of garment
1. **Identify four reasons for using soft furnishing in homes. [2 marks]**
* Decoration
* Protection e.g. bed covers, chair covers
* Comfort e.g. cushions, pillows
* Easy maintenance of upholstery
* Warmth and reduction of noise e.g. carpets.
* Filtering excessive light e.g. curtains
1. **Name three common methods of draining waste water from a house. [1 ½ marks]**
* Free method
* Open method
* Concealed method
1. **Give three uses of mineral fibres in clothing. [1 ½ marks]**
* Manufacture fire proof clothes
* Insulation of electrical appliance
* Theatre/bathroom curtains
1. **Give three qualities of a good tracing wheel. [1 ½ marks]**
* The wheel and the handle should be firmly fixed
* Wheel should roll freely
* The wheel should be well serrated.
1. **Identify three points to be emphasized in habit training of a child. [1 ½ marks]**
* Wash hands before eating
* Use the toilet
* Take a bath daily
* Say thank you and please
* Have enough sleep
1. Name the cause of the following deficiency diseases. [4 marks]
2. Pellagra - lack of vit B2
3. Beri - lack of vit B1 (Thiamine)
4. Scurvy - lack of vit C
5. Rickets - Lack of vit D

**21. Name two types of food service. (1mark)**

* Blue place
* Tray/trolley
* Buffe
* Cafeteria

**22. Mention three factors that affect a budget. (3 marks)**

* Loss of income by the family bread winner. This requires purchasing power.
* Increase in income gives one ability to purchase more goods
* Inflation reduces an individual or family’s purchasing power
* Increase in income gives one ability to purchase more goods
* Inflation reduces an individual or family’s purchasing power of goods
* Personal goals may change and thus use of the available income
* Lack of determination to follow the spending plan may cause overspending

**SECTION B – [20 marks]**

**COMPULSORY QUESTION**

**23. You are left at home to perform some tasks in waiting for celebration of your brothers’ graduation**

**(i) Describe a procedure of cleaning an oil painted Dining room wall. (8 marks)**

* Collect equipment and material to safe time (½)
* Dust (½) using dry clothe (½) to remove loose dirt
* Clean/wash/wipe (½) using a clean clothe (½) wrung from warm (½) soapy (½) water
* Work from low (½) levels going upwards (½) to avoid tear marks/trickling stains.
* Clean a portion (½) at a time slightly overlapping (½) the parts.
* Rinse (½) immediately by wiping with a cloth (½) wrung of clean/plain ( ½ ) water
* Start from top ( ½ ) coming down wards ( ½ )
* Dry/wipe (½) with a dry soft non-fluffy cloth (½).
* Clean the equipment and store ( ½ )

**(ii). Outline the procedure of laundering a loose coloured cotton school blouse. (7 ½ marks)**

* Collect equipment and materials (½)
* Wash (½) in lukewarm (½) soapy (½) water using kneading and squeezing (½) gently friction
* Washing quickly (½) to minimize colour loss
* Rinse (½) in lukewarm/warm (½) water to remove soap and dirt
* Final rinse (½) in cold (½) water with salt (½) and vinegar to brighten colour
* Squeeze out excess water (½)
* Dry straight/dry by the warp
* Dry flat (½) on a clean surface under a shade (½)
* Press with (½) a warm iron on W.S (½) avoiding the ribbing
* Air (½) and fold (½) then store appropriately.
* Clean equipment and stood (½) for future use.

**(iii). Explain Outline steps to be taken when cleaning a dressing mirror. (4 ½ marks)**

* Collect the equipment and materials to be used (½)
* Remove dust (½) using dry cloth wipe/rub/clean the clean (½) mirror using a cloth wrung out of warm (½) soapy (½) water.
* Rinse using a cloth wrung out of clean (½) warm water
* Dry using a clean dry (½) cloth Newspaper
* Buff (½) mirror using a soft clean dry non-fluffy/ lintless cloth/News paper
* Clean equipment used and storage (½)

**SECTION C**

**Choose any two questions from this section. (40 marks)**

**24. (a).(i). Mention two sources of lighting/light (1 mark)**

* Natural and Artificial

**(ii). Explain three reasons for providing appropriate lighting ibn a sick room. (6 marks)**

* To give clear visibility for ease in caring for the sick/to avoid accidents
* To avoid too dim light that strains the eye or the sick.
* To avoid glare that strains the eye of the sick
* To enhance interior décor making the room comfortable for the sick
* To ensure light is well distributed to avoid fatigue/germs/pest
* To cheer the sick thus encourage quick recovery.
* To provide warmth to make the sick comfortable.

**b). Explain four causes of premature birth (8 marks)**

* Use of hard drugs
* Performing difficult task
* Use of unprescribed medicine
* Hypertension/high blood pressure
* Cervical incompetence
* High level of stress/shock/trauma/accident
* Poor nutritional status
* Smoking of tobacco
* STIs and uT
* Anaemia
* Low, weight in pregnancy/poor weight gain in pregnancy
* Alcohol intake
* Serious infections such as Pneumonia, malaria

**(c). Explain reasons for using each of the following ingredients in floor mixtures. (4 marks)**

**(i). Fat**

* Improve flavor shortening effect on glutten
* Assists in the aerating process during nubbing
* Improves the keeping quality

**(ii). Sugar**

* Sweet flavor
* Facilitates fermentation process in bread making by providing food to yeast so that carbon dioxide is produced
* Aeration during creaming
* Help flour mixture to obtain a soft texture and improver use of a product

 **(d). Give a reason for sieving wheat flour before using. (1 mark)**

* Break lumps/remove lumps
* Aerating and remove impurities.

**25. a). Explain five ways of avoiding food wastage in the kitchen. (10 marks)**

* Collect all the requirements before lighting the Jiko.
* Use dry firewood when cooking to avoid dirtfying surface due to soot that is expensive in the long run.

**(b). Explain using sketchy labelled diagram the preparation an attachment of squared patch pocket. (10 marks)**

* Press the seam allowance of the pocket side to the W.S
* Prepare the pocket hem by edge stitching the raw edge and tack in position
* Fix the hem using appropriate stitches
* Press the seam allowance of the pocket open
* Place the pocket on the garment and pin into
* Tack the sides and the lower edge leaving the month open
* Remove pins and machine the pocket close to the fold, strengthen the top of the pocket
* Remove tacking and press flat well explained plus any relevant diagrams

**26 (a). Identify and explain factors to consider when choosing clothes. (5 marks)**

* Clothes should suit figure
* Clothes should suit skin complexion
* Clothes should suit occasion
* Clothes should be current in terms of fashion
* Appropriate style for age of weaner

**(b).Give reasons for food fortification. (4 marks)**

* To improve nutrient value
* To improve flavour
* To improve Texture
* To improve appearance

**(c). Explain four limitations of buying a house. (4 marks)**

* The buyer is not included in the decision – making concerning the design of the house
* It might turn up to be expensive than building.
* One cannot move to another house incase the conditions around the house become unfavourable
* Repair and renovations of the house are entirely the responsibility of the owns.

**(d). Explain precautions to taken when making pastries. (4 marks)**

* The ingredients should be weighed accurately
* The mixture should be kept as cool as possible
* The mixture should not be over handled to avoid air from escaping
* It should be baked under high temperatures for a short time to avoid drying.

**(e). Mention three ways of improving the efficiency of a detergent. (3 marks)**

* Warming the washing water
* Softening hard water
* Applying mechanical agitation
* Starting with less soiled articles
* Avoid using too much washing water