

MARKING SCHEME

441/1

HOME SCIENCE

THEORY

PAPER 1

July 2022

Time: 21/2

MUMIAS WEST SUB COUNTY PRE- MOCK EXAMINATION 2022

Kenya Certificate of Secondary Education (KCSE)

Section A : Answer all questions in this section in spaces provided. (40 Marks)

1. State two uses of fabric conditioners in laundry work. (2 marks)

- To remove static electricity
- To make cotton fabric soft
- To refreshen fabric

Any 2 x 1

2. Identify three qualities of a good toy. (3 marks)

- Durable i.e made from long lasting material
- It should be strongly constructed to so that the child cannot dismantle easily
- It should not be too small to avoid the child swallowing
- It should be unpainted since some paints are poisonous
- Not sharp and pointed to avoid injuring the child.
- Washable or easy to clean since small children can put in the mouth

Any 3 x 1

3. List down two symptoms of food poisoning. (2 marks)

- Vomiting
- Severe stomachache/abdominal pain
- Diarrhoea
- Fever
- Dizziness
- General body weakness

Any 2 x1

4. Name four career opportunities available for a Home science student. (2 marks)

- Teaching
- Cheff
- Nursing
- Public health
- Air hostess
- Food technologist
- Nutritionist
- Institutional manager
- Designers

Any 4 x ½

5. Give three determinants of safe parenthood. (3 marks)

- Meeting nutritional needs of the expectant mother
- Social preparation of the expectant mother
- Psychological preparation of the expectant mother
- Correct age of parents (18-35 years)
- Voluntary counselling and testing(VCT) of HIV of parents

Any 3 x 1

6. List two methods that could be used to serve meals at home. (2 marks)

- Buffet service
- Plate service
- Family table service
- Tray/ trolley service

Any 2 x 1

7. State two functions of ironing clothes during laundry work. (2 marks)

- Remove creases
- Kill germs
- Remove moisture

Any 2 x 1

8. Identify six improvised abrasives at home. (3 marks)

- Charcoal
- Ash
- Sand
- Eggshells
- Maize cobs
- Rough leaves
- Sisal

Any 6 x ½

9. Mention four uses of fuel at home. (2 marks)

- Lighting
- Cooking
- Heating
- Ironing/pressing

Any 4 x ½

10. List three methods of refuse disposal. (3 marks)

- Burying
- Burning
- Using refuse as animal feed
- Converting refuse to manure
- Recycling
- Garbage collection by local authorities

Any 3 x ½

11. Give three factors to consider when choosing method of disposal of fullness on a garment. (3 marks)

The effect desired

- The type of fabric
- The type of garment
- The style of the garment
- Position/part on the garment

Any 3 x 1

12. Name four methods of cooking food. (2 marks)

- Boiling
- Stewing
- Baking
- Steaming
- Frying
- Grilling

Any 4 x ½

13. Give four causes of heavy texture in flour mixtures. (2 marks)

- Inadequate baking powder
- Too cool an oven
- Wrong proportions of fat to flour
- Too much liquid
- Fat became oily during rubbing

Any 4 x ½

14. Name four accessories used at home for decoration. (2 marks)

- Wall hangings i.e. paintings, pictures, calendars

- Carvings i.e wood, metals, ceramics
 - Lamps
 - Clocks
 - Aquarium items i.e shells, corals
 - Trophies, medals,
- Any 4 x ½

15. State three advantages of buying goods on cash. (3 marks)

- Buyer may get discount
 - It prevents one from overspending
 - One avoids impulse buying
 - One follows the budget strictly
- Any 3 x 1

16. Identify two causes of anaemia. (2 marks)

- Lack of adequate intake of iron in the body
 - Severe bleeding
 - Parasitic infection
 - Inability to absorb iron
- Any 2 x 1

17. Give two undesirable qualities of nylon as a fabric that makes it unsuitable for child wear. (2 marks)

- Not absorbent
 - Produces static electricity hence clings on the body
 - It is easily damaged by heat, thus cannot be boiled to remove stains or kill germs
 - Bad conductor of heat, thus not warm
- Any 2 x 1

18. Your parents have left you with your younger brother at home. Describe how you would carry out the following activities:

a) Launder his long sleeved silk shirt (8 marks)

- Collect all equipment and material required
- Empty the pocket if any
- Wash by kneading and squeezing in warm mild detergent water
- Put the collar and cuffs flat on the palm of the hand and rub gently to remove dirt
- Rinse thoroughly in warm water to remove dirt
- Final rinse in cold water into which methylated spirit has been added to give a crispy and lustrous finish
- Squeeze out excess water
- Fold the shirt in a clean towel to squeeze out moisture
- Iron/Press on the W.S using a moderately hot iron
- To have a smooth gloss, iron fast.
- Air to dry completely

- Fold and store well
- Clean all equipment and material used and store well

Max $\frac{1}{2} \times 16$

b) Describe how you would clean his toilet for use (7 marks)

- Collect all equipment and material to be used $\frac{1}{2}$
- Open windows $\frac{1}{2}$
- Flush $\frac{1}{2}$ the toilet, pour cleaning powder or liquid soap $\frac{1}{2}$ into which disinfectant $\frac{1}{2}$ has been added into the basin and leave for a few minutes $\frac{1}{2}$
- Clean $\frac{1}{2}$ the cistern, the toilet seat cover and toilet handle by wiping $\frac{1}{2}$ with a clean cloth wrung out of warm $\frac{1}{2}$ soapy $\frac{1}{2}$ water
- Rinse $\frac{1}{2}$ with clean water into which disinfectant has been added and leave to dry
- Use a toilet brush $\frac{1}{2}$ to scrub $\frac{1}{2}$ the inside of the bowl $\frac{1}{2}$ to ensure all stains are removed
- Flush $\frac{1}{2}$ again to leave clean
- Wash $\frac{1}{2}$ hand basin if there
- Mop $\frac{1}{2}$ the floor, rinse $\frac{1}{2}$ and dry $\frac{1}{2}$
- Ensure there is toilet paper $\frac{1}{2}$
- Clean all equipment and material used and store well $\frac{1}{2}$

Max $\frac{1}{2} \times 14$

c) Clean his milk glass (5 marks).

- Collect all equipment and material required $1/2$
- Rinse $1/2$ in warm $1/2$ water
- Wash $1/2$ in warm $1/2$ soapy $1/2$ water using a sponge $1/2$
- Rinse $1/2$ in clean warm $1/2$ water
- Drip dry $1/2$ on a rack
- Buff $1/2$ using a glass $1/2$ cloth
- Clean all equipment and materials used and keep well $\frac{1}{2}$

$\frac{1}{2} \times 10 = 5$

19. a) Explain four factors to consider in the choice of colour scheme of a house. (8 marks)

- Effect desired - Choose colours based on one's interest on how the room has to appear (increase size or reduce size of the room)
- Use of the room -Base on the use of the room that will create the right mood e.g using warm colors in the living room to create warmth and restfulness
- Orientation – Warm colours for houses facing North and South while cool colours for houses facing East and West
- Existing décor : –Choose colours that harmonize well with the color of the furniture, soft furnishing etc
- Effect of light: - The reflection of light affects the colours in the room

-Personal taste : - Each individual love particular colors. Other people ought to appreciate.

Any 4 points and 4 well explained reasons

b)Mention four ways pastry can be kept cool during preparation. (4 marks)

- Using flour that has been kept in cool dry place
- Using fat kept in the refrigerator or a cool place
- Using fresh water freshly drawn from the tap as it contains more air
- Using finger tips for rubbing-in as they are the coolest parts of the hand
- Using a spatula or pastry knife to mix as they are cooler than fingers
- Rinsing hands in cold water before handling the pastry
- Handling pastry as little as possible
- Lifting and shaping the pastry with a rolling pin and a palette knife
- Relaxing the pastry in a cool place between the rollings and the cooking

Any 4 x 1

c) Give four ways of conserving energy in the home while cooking. (4 marks)

- Cover the cooking pot with a well-fitting lid
- Soak foods that take long to cook
- Use efficient devices e.g. fuel saving jikos
- Extinguish wood/charcoal after cooking to reuse later
- Put on cooking and heating equipment when you are ready to use
- When boiling hard foods e.g. pulses use pressure cooker to shorten cooking time

Any 4 x 1

d) State four advantages of using electricity as fuel (4 marks)

- It is clean
- Quick to cook
- No storage space is required.
- It is versatile in use .i.e cooking, lighting, etc

Any 4 x 1

20. a) Identify three problems related to breastfeeding and give remedies for each. (6 marks)

- Sore nipples: - Breastfeeding more often starting by the side which is less sore
 - Relaxing before starting to breastfeed as this leads to easy flow of milk
 - Avoid pulling the baby from the breast . Instead release the baby by pressing

down the chin

- Breast engorgement:- Frequent breastfeeding

-Squeezing the breast with warm wet clean cloth to relieve it

- Breast abscess: -Seeking medical attention immediately

- Baby refusal to breast feed because of thrush: -Take baby to hospital to a specialist

- Inadequate milk supply: - Frequent breastfeeding
- Eat well.

Any 3 points and 3 for well explained reasons

b) Name four factors that may affect a budget. (4 marks)

- Loss of income
- Increase of income
- Change in personal/ family goals
- Lack of commitment to follow the budget strictly
- Inflation

Any 4 x1

c) Give five qualities of a well made seam . (5 marks)

- Strongly stitched to last long
- Accurately stitched to maintain good line to retain good drape and shape
- Neatly stitched
- Match where they cross or meet
- Well pressed and flat
- Of appropriate width and equal in all parts

Any 5 x1

d) Identify five ways of meeting physical needs of an expectant mother.(5 marks)

- Taking enough sleep and rest
- Doing exercises i.e walking
- Putting on correct dressing i.e low heeled shoes and free size dresses
- Observing high standards of hygiene i.e taking bath regularly, putting on clean clothes, brushing teeth regularly

Any 5 x1

21. a)Discuss five reasons for breaking needle while machining. (5 marks)

- Bent needle
- Machining over pins
- Machining cloth to zip teeth
- Needle too fine for the work
- Loose presser foot
- Needle not firmly fixed
- Fabric too thick for the needle

Any 5 x1

b) State three reasons for softening hard water for laundry work. (3 marks)

- To save on soap
- To avoid discoloring clothes that may be caused by scum
- Saves on energy

Any 3 x 1

c) Mention four reasons why people prefer plastic buckets to galvanized iron (4 marks)

- They are light in weight
- They do not rust
- They are found in different colors
- They are found in different shapes
- They are cheap

d) Define the following terms(3 marks)

- Consumer : A person that chooses, purchases,uses and maintains goods and services to satisfy his/her needs and wants
- Goods: Tangible items which can be bought or sold
- Service: Work rendered at a fee

1 mark for each

e) Give five ways of introducing air mechanically into flour mixtures. (5 marks)

- Sieving
- Creaming
- Beating
- Whisking
- Rubbing in
- Folding

Any 5 points x 1