

441 | HOME SCIENCE. PAPER 1

MARKING SCHEME.

1. What is a maisonette? (1 mark)

This is a house where different areas are located on two or more floors. (1x1 = 1 mark)

2. Give two ways of meeting the emotional needs of a patient recuperating at home. (1 mark)

- Reassuring the sick that all will be well soon.
- Appearing happy and enthusiastic when assisting the patient
- Encouraging the sick to be involved in some interesting activities which can lessen boredom.
- Avoiding discussing worrying issues, either with the patient or in his presence.
- Placing some flowers in the room to cheer up the patient (1x1 = 1 mark)

3. Name three types of kitchen arrangement. (1½ marks)

L Plan

U Plan

One wall

Corridor plan

$4 \times \frac{1}{2} = 3 \sim$

($3 \times \frac{1}{2} = 1\frac{1}{2}$ marks)

4. Give two advantages of using candles. (1 mark)

Easy to light

Can be used anywhere.

They are affordable.

($2 \times \frac{1}{2} = 1$ mark)

5 a) What is snipping? (1 mark)

Making small cuts on the edge of fabric especially on curved areas to reduce bulk.

- b) State two uses of a crease strip (1mk)
- Binding raw edges, finishing edges
 - Decorating e.g. collar, sleeve edge and hem. (1x1=1mark)

6. Mention two advantages of sponging (1mk)
- It reduces the risk of loss of colour or shape especially for heavy or bulky garments.
 - It saves money and time since one does not have to take clothes for commercial dry cleaning so frequently.
 - The solutions are simple to make at home
 - The item can be used almost immediately as it dries quickly (1x1=1mark.)

7. Name two wet areas in the house. (1mk)

Kitchen

Toilet

Bathroom (2x1/2 = 1mark)

8. Explain how fans work. (1mk)

When the fan blades are set into rotation, the fan sets air inside the room in motion. Fans only keep the air in a room in motion. They do not remove stale air from a room.

9. State two uses of fat in flour mixtures. (1mk)
- Improve the storage qualities
 - Add nutritive value
 - Add flavour. (2x1/2 = 1mark)

- b) State two uses of a crossway strip (1mk)
- Binding raw edges, finishing edges
 - Decorating e.g. collar, sleeve edge and hems. (1x1=1mark)

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10a. State two limitations of buying using cash. (1mk)

- Items cannot be bought without fully paying for them.
 - It is not safe to carry large amounts of money.
 - It is difficult to buy some items with cash e.g. land
- (2 x 1/2 = 1 mark)

b. Highlight two precautions to take when using pressure lamps. (1mk)

- Light correctly, making sure the necessary precautions are taken to avoid accidents.
 - Place it on a raised surface away from places where it would fall.
 - Wipe off any spills to prevent fire outbreaks.
 - Do not touch the mantle because it is fragile.
- (2 x 1/2 = 1 mark)

11. Give two points to consider when drawing up a diet for vegetarians. (1mk)

- The diet should be balanced.

Vary the food options to avoid monotony.

Use vegetables in season as they are cheaper and of better quality.

Use vegetable oil

Well garnished.

Well seasoned. (2 x 1/2 = 1 mark)

State two importance of pressing at every stage of dressmaking. (1mk)

It makes the work flat

Leads to accuracy in measurement

It makes the final product look neat and presentable

- It makes the work more faster since it's easy to see the construction process.
 - It reduces the amount of pressing to be done when the article is completed.
- (2x½ = 1mk)

iii) Mention two methods of fabric construction (1mk)

- Weaving
- Knitting
- Bonding
- Felling
- Netting
- Crocheting

12. State two factors that influence food security at household level other than poverty. (1mk)

- Wastage as a result of poor planning
 - Poor storage
 - Infestation of food by pests.
- (2x½ = 1mk)

13a) Give four causes of anaemia (2-mks)

- Menstruation
 - Injury
 - Child birth
 - Late weaning
 - Poor balanced diet.
 - Infestation with worms
- (4x½ = 2marks)

b) Name one function of Vitamin E in the body (1mk)
It is necessary for the normal fertility.

(1x1 = 1 mark)

14 Give two differences between an open seam and a machine fell seam.

- An open seam is worked on W-S while machine fell seam is worked on the R/S of the article.
- An open seam is heatened while a machine fell seam is self-heatening. (2 x 1 = 2 marks)

15 List two points to consider when making a flower arrangement for a dining table. (2 mks)

- Avoid choosing scented flowers because some people may be allergic to them.
- Choose medium-sized flowers as large ones would make the table crowded.
- Should be of convenient height for clear visibility.
- Make circular or oval shape to be viewed from every side.
- Size of the flower arrangements should correspond with that of the table.

(2 x 2 = 2 marks)

16 State four functions of beverages in a med. (2 mks)

To stimulate
To nourish

They are refreshing in the body and quench thirst
They provide fluid in the body to prevent dehydration

Aid digestion

(4 x 1/2 = 2 marks)

17 Outline three qualities of a good ironing surface. (1/2 marks)

Should be flat for easy ironing

- Should be large enough to accommodate garments for adults
- The surface should not be polished
- It should stand firm to prevent wobbling

(3 x 1/2 = 1 1/2 marks)

18. Give two ways fruits can be made available as convenience foods. (1 mark)

They can be packed whole for sale.

Juices

Salads

(2 x 1/2 = 1 mark)

19. State three qualities of the Weights and Measure department. (3 marks)

- Raid any shop and check the weights and measures of all machines used in trade.
- Test the machines and ensure that weights are in good working order and are accurate
- Follow the trader to ensure the correct usage of machines so that the consumers are not cheated
- Check the machines yearly for any stamping, a small fee is charged.
- Check pre-packed goods such as sugar to ensure correct weights are used and marked on the packet.

(3 x 1 = 3 marks)

20. List four factors that cause premature birth. (2 marks)

- Smoking tobacco
- Alcohol
- Trauma
- Poor weight gain
- Accidents
- Anaemia

(4 x 1/2 = 2 marks)

2) a) State two ways one can ensure left-over food retains its freshness. (1 mk)

- Put in clean, covered containers so as to prevent it from contamination. Cakes and biscuits should be stored in airtight containers.
- Cooled as quickly as possible and then stored either in the refrigerator or any reasonably clean and cool place.

(2 x 1/2 = 1mk)

b) Name two methods of making soap. (1mk)

- Hydrolysis method
- Boiling method

(2 x 1/2 = 1mark)

c) Explain the effect of soap in water during laundry. (2mk)

Soap dissolves in water, lowers the surface tension of water thus enabling the solution to penetrate the fabric and emulsify dirt.

SECTION B. (COMPULSORY.)

22 You have been left to be in charge of the home while your mother is away. Give the procedure you would follow to:

a) Thoroughly clean your fast coloured bedsheet. (7 marks)

Collect equipment and materials required to save on time and energy. Remove stains before washing, if any. Shake to remove loose dirt.

Soak in cold water for a short time to loosen fixed dirt.

Wring out of soaking water and wash in warm, soapy water using friction method to remove dirt.

Rinse in warm water to remove soap and dirt. Final rinse in cold water, into which vinegar has been added to brighten colour and to refreshen.

Dry on a clothesline, secured with pegs, under a shade W.S. out.

Iron while slightly damp, with a moderately hot iron to remove creases.

Air to complete drying.

Fold and store appropriately.

Clean the equipment used, dry and store for next use.

($28 \times \frac{1}{4} = 7$ marks)

b) Thoroughly clean a discoloured melamine plate. (8 marks)

Collect the washing equipment and materials.

Soak in a diluted household bleach.

Clean in hand-hot soapy water, scrubbing gently with a mild abrasive.

Rinse thoroughly in warm water

Drain to dry

Buff to shine

Store appropriately ready to use

Clean equipment used and store appropriately.

c) Thoroughly clean an enamel cup used to take porridge (5 marks)

Empty the contents and rinse in warm water

Wash in warm, soapy water using a sponge.

Rinse in warm water to remove soap and dirt

Final rinse in cold water to refreshen.

Wipe to dry or chip dry on a rack

Buff to shine.

Store appropriately. (10 x 1/2 = 5 marks)

SECTION C. (40 MARKS) Answer

any two questions from this section.

23 a) Explain four qualities of a good toy. (4 marks)

- Should be made of strong material to last long.
 - It should be strongly constructed so that the child cannot easily dismantle.
 - It should not be too small to prevent the child from swallowing it
 - It should be unpainted as some paints are poisonous.
 - It should not be sharp to avoid accidents.
 - It should be washable as children put them in the mouth.
- (4 x 1 = 4 marks)

b) State 4 problems related to breastfeeding and give their remedies (8 marks)

Sore nipples - Breastfeeding more often starting by the side which is less sore. Relaxing before starting to feed as this leads to easy flow of milk.

- Avoid pulling the baby from the breast, instead release the feeding baby by pressing down the chin.

Breast engorgement - frequent breastfeeding reduces the chance of breast engorgement.

- Squeezing the breast with a warm wet cloth relieves the engorgement.

Breast abscess - Seeking medical attention immediately because it is an infection which has set in.

Inadequate milk supply - frequent nursing will keep the milk flowing.

- Eating a well balanced diet.

Mother's inability to breastfeed - Expressing the milk so that the baby can feed from the bottle.

Baby's refusal to breastfeed - If sick, seek medical attention for the baby.

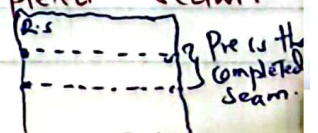
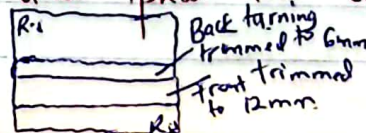
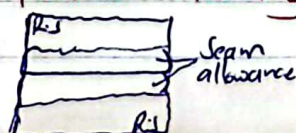
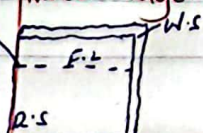
Mother's refusal to breastfeed - Counselling to enable them develop a positive attitude towards breastfeeding.

$$(4 \times 2 = 8 \text{ mks.})$$

d) With the aid of 4 well labelled diagrams, explain how to make a double-stitched seam (8 mks). (Give 1/2 mk for each diagram)

- Place the fabrics together with W.S. facing and F.L. matching. Pin and tack along the F.L. Remove pins and machine along the F.L. Remove tacking and press. Trim back turning to 6mm and front to 12mm. Fold over the front to the back to form the fell. Press the fell on the back of the garment. Tack and machine close to the fold through the three layers. Remove tacking and press the completed seam.

Tack and Machine on F.L.



24. a) List four qualities of a well made in-seam pocket. (4mks)

- Inconspicuous on the R's
- The grain of the pocket and that of garment match.
- Pocket mouth is large enough for the hand of the wearer
- Pocket bag should be deep enough to prevent dropping things
- Pocket is flat
- Pocket is reinforced at the mouth.

b) Discuss three reasons for using interfacing. (6mks)

- To reinforce certain areas in a garment e.g. cuffs, collars and waistbands
- Give crisp tailored look to an area where applied
- It is used to prevent stretching/sagging e.g. collarless neck edges
- Increase create resistance
- Used to reinforce under buttons and buttonholes on front jacket or blouse; To stiffen and add firmness

(3 X 2 = 6 marks)

c) Explain five importance of habit training. (5mks)

- To enable a child to grow into a responsible adult
- To instill good habits.
- To enable a child to grow wanted and respected by others
- For the child to grow up a healthy person.
- To enable the child to grow disciplined with good values that already exist in her/his.

(5 X 1 = 5 marks)

d) List five benefits of food fortification. (5mks)

- Enrich the food to improve nutritive value.
- Improve flavor
- Improve colour
- Improve keeping quality / shelf life

25 a) State four qualities of a good laundry soap. (4 marks)

- Should be readily soluble in water
- The soap should be able to lower the surface tension of water
- Should be able to emulsify dirt
- The soap should be able to hold dirt from the clothes in suspension and prevent it from going back to the garment.

b) Outline 4 qualities of a good sleeve. (4 marks)

- The crown should be properly matched with the shoulder seams so that the hang of the sleeve is good.
- The cap should be smoothly rounded
- The fullness should be evenly distributed
- The stitching should be firm and neat.
- Armhole seam line should be smooth and strong.
- The sleeve should be trimmed evenly to reduce bulk and neatened appropriately.

c) Explain the preparation of an interfaced waistband. (8 marks)

- Cut the waistband, underwaistband and interfacing according to the pattern
- Transfer the pattern markings required
- Apply the interfacing on the W.S of the waistband matching leaving the seam allowance.
- Place the waistband and underwaistband together with the R.S facing. Match the raw edges, fish and notches.
- Pin and tack along the F.L; leaving the lower edge to be attached to the waistline.
- Remove pins and machine the sides and top edge leaving the lower edge unstitched.

- Trim and layer the seam allowance.
- Snip the curved sections of the waistband and clip pointed edges.
- Turn the waistband to R-s and knife edge.
- Press the waistband
- Top-stitch round the edge for a neat finish and for flatness.