

NAME----- INDEX NO-----

CANDIDATES SIGNATURE-----

DATE-----

441/1
HOMESCIENCE
(THEORY)
PAPER 1
JULY /AUGUST 2011
2 ½ HOURS

MAKUENI /KATHONZWENI JOINT EXAMINATION
Kenya Certificate of Secondary Education
HOMESCIENCE
PAPER 1
JULY /AUGUST 2011
2 ½ HOURS

INSTRUCTION TO CANDIDATES

1. Write your name and index number in the spaces provided above.
2. This paper consists of three sections A, B and C.
3. Answer to all questions must be written in this booklet.

FOR EXAMINERS USE ONLY

Section	Questions	Maximum score	Candidates score
A	1-22	40	
B	23	20	
C Any two	24	20	
	25	20	
	26	20	
Total marks		100	

This paper consists of 8 printed pages. Candidates should check the question paper to ensure that all the pages are printed as indicated and no questions are missing.

This paper consists of 8 printed pages

Turn over

SECTION A (40 MARKS)
Answer all the questions in the spaces provided

1. Give two reasons why lemon juice is sometimes added to fruit salads (2mks)

- .2. Mention three ways of saving energy when lighting a home (3mks)

3. What are two important issues to put into consideration when preparing foods containing ascorbic acid (Vitamin C) (2marks)

4. State two reasons for using floor coverings in a house (2marks)

5. State the use of a colander as a kitchen equipment (1mark)

6. Give two measures that can be used to control rats in the house. (2marks)

7. During the ante-natal care, the blood of the mother is tested. Name three items tested from the blood of the mother. (1 ½ mks)

8. Identify two reasons for pressing during garment construction. (2marks)

9. State two functions of petroleum jelly in a first aid box. (2mks)

10. State two disadvantages of concealed drainage. (2mks)

11. List four methods of finishing hems decoratively. (2mks)

12. State the importance of sebaceous glands to a healthy skin. (1mk)

13. Highlight four reasons why polythene paper is mainly used when storing foods in a refrigerator. (2mks)

14. Give two uses of starch in laundry work. (2mks)

15. State two points on importance of child immunization. (2mks)

16. Suggest two desirable qualities that make polyester a suitable fabric for soft furnishing. (2mks)

17. Give two qualities of a well made cuff. (2mks)

18. State three problems that a consumer may face in the process of purchasing goods and services. (1½mks)

19. State three general rules to be followed when repairing clothes. (3mks)

20. List four traditional methods of preserving food. (2mks)

21. Mention two points to consider when choosing pegs. (1mk)

(c) What steps would you follow to clean a water glass she/he will use. (4mks)

SECTION C (40 MKS)

Answer any two questions

23. (a) Define a seam. (2mks)

(b) List two examples of double stitched seams. (2mks)

(c) Explain with the aid of a diagram the methods of working a machine fell seam. (12mks)

(d) State four disadvantages of renting a house.

(4mks)

25. (a) State five points on care given to a child with fever at home.

(5mks)

(b) Identify five laundry work processes that are harmful to woolen fibres and in each case state the harm caused.

(5mks)

(c) State four limitations of traditional house designs.

(d) Explain the process of manufacturing soaps using the hydrolysis method.

(6mks)

8. -To ensure neatness
-Ensure accuracy in seam construction by removing unnecessary folds. 2x1=2mks
9. -Apply on burns / scalds to soften skin.
-Apply on bites to soothe the pain. 2x1=2mks
10. -Incase of blockage,unlocking becomes difficult.
-Used only where there is piped water supply.
-Need an expert to construct.
-Expensive to install. Any 2x1=2mks
11. -Use of ribbons.
-Use of laces.
-By binding.
-Use of a frill.
-Use of a false hem Any 4x 1/2=2mks
12. -Provide sebaceous fat (sebum) which makes the skin soft and supple and prevent it from drying and cracking. 1mk
13. -They are water proof.
-Air-tight.
-Are hygienic.
-Don't allow mixing or different food flavours.
-Are not toxic. Any 4x 1/2 =2mks
14. -Used to stiffen clothes and household articles.
-It makes the articles smooth and glossy.
-Makes it easy to iron.
-Makes it dirt resistant. Any 2x1=1
15. -To boost immunity.
-To reduce child mortality rate.
-Reduce and prevent deformities, used by diseases such as poliomyelitis.
-To promote a health nation through strong and productive citizens. Any 2x1=2mks
16. -It is resistant to sunlight.
-It drapes well.
-Its strong. Any 2x1=2mks
17. -It should be well neatened.
-It should e flat.
-It should be even, same size and shape in both cuffs.
-If attached without a sleeve opening,it should be large enough for the hand to slip in and out comfortably.
-It should have good knife edge or well rounded corners. Any 2x1=2mks
18. -scarcity of resources.
-Lack of awareness of one's rights.
-Lack of information 3x 1/2 =3 1/2 mks

19. -Repair as soon as possible.
 -Repair should cover worn out areas adequately.
 -Repair should be done before washing to avoid enlarging the tear.
 -It should be made as inconspicuous as possible using matching thread. 3x1=3mks
20. -Sun drying.
 -Smoking /drying over fire.
 -Use of ash.
 -Use of fish.
 -Use of honey. 2mks
21. -Open and close easily.
 -Well fixed.
 -Strong enough to secure heavy clothes.
 -Should be made of good quality material.
 -Should have a smooth finish. Any 2x 1/2 =1mk

SECTION B : 20 Marks

- 22.(a) -Collect equipment and material needed.
 -Wash separately(1/2) to prevent spread of diseases(1/2).
 -Wear protective gloves and clothing.(1/2).
 -Soak /steep(1/2) to dissolve dirt and remove some stains (1/2).
 -Wash in warm (1/2)soapy (1/2) water ,use friction(1/2)method to quicken lathering and remove dirt respectively(1/2).
 -Rinse (1/2)in warm(1/2)water to remove traces of dirt /detergent(1/2).
 -Disinfect (add dettol) or boil(1/2) to kill germs.
 -Finally rinse in cold water to freshen it(1/2).
 -Dry in the sun(1/2) to remove moisture(1/2)
 -Sprinkle(1/2) with water and roll for moisture to spread evenly(1/2).
 -Iron with hot(1/2)iron – cotton withstands high temperatures.
 -Air(1/2) to remove moisture and smell.
 -Fold and store for next use(1/2). (10 marks)
- (b)-Collect equipment and materials required.(1/2)
 -Dust (1/2)the door from top to bottom/both sides.(1/2)
 -Using warm (1/2) soapy (1/2) water and a soft brust / sponge /clothed(1/2). Clean the door from top to bottom (1/2). Special attention to hinges /etc.
 -Rinse(1/2) by wiping with a rag(1/2) wrung from clean water (warm) from top to bottom. Rinse thoroughly /several times (1/2)NB last rinse can be done by use of cold water.
 -Clean both inside and out side.(1/2)
 -Dry with a dry non-fluffy material.(1/2) (6 marks)
- (c) Cleaning water glass.
 -Use warm(1/2) soapy(1/2) water and soft materials /sisal fibres(1/2).
 -Rinse(1/2) thoroughly in warm(1/2) water.
 -Drain on a rack or wipe with clean dry kitchen towel(1/2) to remove water /dry(1/2).
 -When completely dry buff(1/2) and store.

-Trim back turning to 0.6 cm and front turning to 1.2 cm(1cm)

W.S F.L R.S Back 0.6 1.2cm

- Make a small turning on the front allowance towards the wrong side (2mm from the raw edge)
- Fold the front turning over back turning to form the fell. (1mk)
- Press the fell to lie flat on the back of the garment. (1mk)
- Pin and tack through the three layers (½ mk)
- Remove pins and machine stitch close to the fold (about 1mm from the fold) 1mk
- Remove tacking and press the seam flat (½ mks)

R.S Back R.S Front 2nd row of stitches 1st row of stitches

Finished seam width should be 1cm. Well labelled diagr; 4mks Total marks-12mks

- (b) -Type of material.
-Position of the seam.
-Use of the garment.
-Type of garment.
-Style of the garment
-Shape o the edge where the seam is used. Any 4x1 =4mks
- 24.(a) -Sterilized to ensure there is no micro-organisms.
-Well covered to keep off dust,pest and rodents.
-Made of material that do not peel to avoid contamination.
-Emptied frequently and well cleaned.
-Without cracks to prevent leakage.
-Made of materials which are easy to clean. Any 5x1=5mks

(b)-Sedimentation

- Boiling
- Filtration
- Use of chemicals.

Any 3x1=3mks

©-Nutritional balance.

- Individual requirements in the family.
- Occasion.
- Facilities available.
- Skills of cook /worker in food preparation.
- Money available.

Well explained points 4x2=8mks

(d)-Renting is an expensive method of providing family shelter in the long run.

- It does not provide a sense of belonging and ownership.
- It may limit the freedom of movement, possession and socialization.
- One may be evicted from the house by the land lord or lady without prior notice.

4x1=4mks

25. (a)-Dress the child in light clothing.

- Give plenty of fluids.
- Give the child a balanced and appetizing meal.
- Rub the body with a wet cloth wrung out of warm water to cool down.
- Give medication for fever according to instruction.
- Let the child lie quietly in bed.

Any 5x1=5mks

- (b)
- Soaking cause wool to shrink.
 - Rubbing method cause felling and stretching of wool.
 - Wringing cause felling and stretching.
 - Drying in the sun harden and break wool.
 - Boiling cause shrinking and hardening.
 - Ironing make it stretch and make it shiny.
 - Hanging on line to dry – stretches and losses shapes
 - Bleaching change colour
 - Poor rinsing causes soap to harden / weaken fibres.

Any 5 x 1 = 5 marks

©-Not durable.

- Not secure incases of invasion.
- Small – don't provide enough space for accommodation of family members.
- Don't provide adequate privacy among family members.
- Can easily cause accidents in case of fire outbreaks because they are grass thatched.

Any 4x1=4mks

- (d)
- The fat is broken $\sqrt{1/2}$ down into fatty acid $\sqrt{1/2}$ and glycerine $\sqrt{1/2}$ by steam $\sqrt{1/2}$ action and pressure $\sqrt{1/2}$ (Hydrolysis)
 - Fatty acids floats $\sqrt{1/2}$ on the top while glycerine dissolves in the water at the bottom. $\sqrt{1/2}$
 - The two are then separated $\sqrt{1/2}$ and the fatty acid $\sqrt{1/2}$ is neutralized $\sqrt{1/2}$ with sodium hydroxide to form $\sqrt{1/2}$ soap

12x $1/2$ =6mks

NAME-----

INDEX NO-----

CANDIDATE'S SIGNATURE-----

DATE-----

441/2

HOMESCIENCE

PAPER 2

CLOTHING CONSTRUCTION

JULY /AUGUST 2011

2 ½ HOURS.

MAKUENI /KATHONZWENI JOINT EXAMINATION

Kenya Certificate of Secondary Education.

HOMESCIENCE

PAPER 2

CLOTHING CONSTRUCTION

JULY /AUGUST 2011

2 ½ HOURS.

1. A pattern of a child's dress is provided. You are advised to study the sketches, instructions and layout before you begin the test.

Materials provided.

- A – Front Bodice
- B – Back Bodice
- C – Front Skirt
- D – Back Skirt
- E Sleeve
- F Collar
- G Back neck facing

2. Plain light weight cotton fabric 75cm by 91cm wide.
3. Zip – 5 inches long.
4. Sewing thread to match the fabric.

THE TEST.

Using the materials provided, cut out and make up the LEFT half of the child's dress to show the following.

- (a) The making of the shoulder dart.
- (b) The making of a double stitched seam at the shoulder.
- (c) The joining of the front and back facing at the shoulder and neatening of the free edge of the joined facings.
- (d) The preparation of an interfaced collar.
- (e) The attaching of the bodice pieces to the skirt pieces neatening the back part only.
- (f) The making and neatening of an open seam at the side.
Attach the zip into the seam using semi concealed method.
- (g) The attaching of the collar using the joined facings.
- (h) The preparation of the sleeve using a French seam at the under arm.
- (i) The attaching of the sleeve into the arm hole, leaving the seam allowance untrimmed and unneatened.

OMIT.

The management of the lower hem and sleeve hem.

At the end of the examination, firmly sew onto your work, on a single fabric, a label bearing your name. Remove needles, pins and threads from your work. Then fold your work carefully and put in the provided envelope. Tuck in the flap.

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HOMESCIENCE
PAPER 2

MARKING SCHEME

N O		MAXIMUM SCORE	CANDIDATE SCORE	REMARKS
1.	<u>PRESENTATION</u> Work labelled(½)and folded(½) Label firmly fixed(½)on a single fabric(½ Pins(½)and unnecessary threads removed(½)	1 1 1		
	Total	3		
2.	<u>CUTTING OUT</u> Back bodice C.B well cut straight grain Front bodice F.B cut on straight grain Skirt back C.B cut on straight grain Collar and interfacing C.B cut on straight grain Back neck facing cut on straight grain Back skirt lower edge well cut Front skirt lower edge well cut Sleeve lower edge well cut (N.B)if hem of skirt and sleeve is finished give zero 0)	½ ½ ½ ½ ½ ½ ½ ½		
	Total	4 ½		
3.	<u>SHOULDER DART</u> Straight stitching tapering to nothing Dart well fastened at the point/correct length Dart to with 6.3cm to within 2mm Correct width (0.6cm) to within 2m Dart pressed toward centre back Flatness of the dart RS and WS	1 1 ½ ½ ½ 1		
	Total	4 ½		
4.	<u>DOUBLE STITCHED SEAM (SHOULDER)</u> First joined line length Fell neatly tucked under End well held with straight stitchery close to fold Correct size(6mm) to within 2mm Fell processed to the back	½ 1 ½ 1 ½		

	Everness of the fell Flatness of the seam R.S & W.S Total	$\frac{1}{2}$ 1 5		
5.	<u>FACINGS</u> Front and back facings joined using an open seam. Open seam trimmed and pressed and unneatened Quality of neating of free edge Evenness of facing	$\frac{1}{2}$ 1 $\frac{1}{2}$ 1 $\frac{1}{2}$		
	Total	3 $\frac{1}{2}$		
6.	<u>COLLAR</u> Collar interfaced Smooth outer edge of the collar Collar trimmed($\frac{1}{2}$)and snipped($\frac{1}{2}$) Collar well knife edged ($\frac{1}{2}$)and sharp point($\frac{1}{2}$) Collar top stitched Correct shape end size to within 2mm Collar well attached (sand wiced between bodice end facing) Flatness of the attached collar & facing Raw edge of facing enclosed trimmed & snipped of the neckline seam Correct positioned collar & facing CB Aligned with CB of the bodice to within 2mm Collar CF at 1.5 cm from CF. Fold of bodice to within 2mm Shoulder seam matching facing Seam at neck and shoulders	1 $\frac{1}{2}$ 1 1 $\frac{1}{2}$ 1 $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ 1 $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ 1		
	Total	10 $\frac{1}{2}$		
7.	<u>WAIST SEAMS</u> Front bodice joined to front skirt with straight stitching line Back bodice joined to back skirt with straight stitching line Trimming of seam allowances to within 1cm Waist seam pressed upwards Alignment of bodice pieces with the skirt pieces. Flatness of seam R.S and W.S	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ 1 $\frac{1}{2}$		
	Total	3 $\frac{1}{2}$		
8.	SIDE SEAM ZIP-OPEN SEAM Side seam joined with straight stitching	$\frac{1}{2}$ $\frac{1}{2}$		

	Well neated raw edge Final width of seam 1cm to mini 2mm Zipper attached with straight stitching And reinforced at back and front Flatness of zipper Waist seam meeting to within 2mm Side seam open If not concealed method do not award marks for d,e,f.	½ ½ 1 ½ ½ ½		
	Total	4 ½		
9.	<u>SLEEVE</u> Good hang Gathers evenly distributed at crown Underarm seam well managed 4 straight stitchery 2 nd raw of stitching Raw edge well trimmed and no thread showing on R.S. Even width of seam (6mm)to within 2mm Good hang Flatness of seam Arm hole seam made with straight stitching line. Correct positioning of sleeve(notches matching)Give 0 if trimmed. Underarm seam matching side seam N.B. Give zero if not French seam.	½ ½ ½ 1 ½ ½ ½ ½ ½ ½ ½		
	Total	6		
	GRAND TOTAL	45		

NAME-----

INDEX NO-----

CANDIDATE'S SIGNATURE-----

DATE-----

441/3

HOMESCIENCE

PRACTICAL – FOODS AND NUTRITION

PAPER 3

JULY /AUGUST 2011

1 ¾ HOURS

MAKUENI /KATHONZWENI JOINT EXAMINATION

Kenya Certificate of Secondary Education

HOMESCIENCE

PAPER 3

PLANNING SESSION 30 MIN

PRACTICAL SESSION 1 ¼ HOURS

This paper consists of 2 printed pages

Turn over

TEST.

You are taking care of your sister who is recovering from measles. Using the ingredients listed below, prepare and cook a two-course dinner for the two of you.

Include a refreshing fruit drink.

Ingredient

Onion

Tomatoes

Beef

Salt

Dhani

Sugar

Rice /spaghetti

Green vegetables in season

Capsicum

Cooking fat

Fruits in season

Planning session: 30 minutes

Use separate sheets of paper for each task listed below and make duplicate copies then proceed as follows.

1. Identify the dishes then write down their recipes.

2. Write your order of work

3. Make a list of the foodstuffs and equipment you will require

441/3
HOMESCIENCE
PAPER 3
JULY /AUGUST 2011

MAKUENI /KATHONZWENI JOINT EXAMINATION
Kenya Certificate of Secondary Education
HOMESCIENCE
PAPER 3
JULY /AUGUST

AREA OF ASSESSMENT	MAXIMUM SCORE	ACTUAL SCORE	REMARKS
1. PLAN			
Recipes			
*Availability	1		
*Correct procedures	1		
*Correct choice of menu	1		
Order of work	1		
*Availability	1		
*Proper sequencing			
List of foodstuff & equipment	1		
*Availability	1		
*Adequacy	1		
*Appropriateness			
Sub Total	8		
2. PREPARATION			
Correct procedure in preparation			
*Appetizer	1		
*Protein dish	1		
*Carbohydrate dish	1		
*Vegetable dish	1		
*Drink	1		
Methods of cooking (at least 2)			
Quality of results			
*Appetizer /Desert ½			
*Proteins Dish ½			
*Carbohydrate Dish ½	2 ½		
*Vegetable dish ½			
*Drink ½			
	8 ½		

This paper consists of 2 printed pages

Turn Over

3. PRESENTATION Use clean(½)well pressed cloth(½) Appr. Serving dishes and equipment (1) Use of proper centre piece(½) Personal and food hygiene(1) Placement / cutlery &crockery (½) Garnishing (½) General impression (½)			
Sub-total	5		
4. Economy of Resources *water (½) *Food (½) *Fuel (½) *Material (½)	2		
Sub-total			
5. Clearing –up *During work (½) *After work (1)	1½		
Sub-total	1½		
Sub-total	25		
MAIN - TOTAL			

2.