HOME SCIENCE PAPER 1

ANSWERS

KCSE 2011

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SECTION A

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1.	(i)		opherol	-	Vitamin E	
	(ii)	Reti		-	Vitamin A	
	(iii)		lecalciferol	-	Vitamin D	
	(iv)	Phyl	lloquinone	-	Vitamin K	
2.	Qualities of containers used to freeze foods: Should be:				$4 x \frac{1}{2} = 2 \text{ marks}$	
	- waterproof/plastic/polythene;					
	-	- strong/durable/long-lasting;				
	- easy to handle;					
	 easy to clean/washable; 					
	 harmless/safe to use/not rusting/not poisonous/non-toxic; 					
	- have a cover/lid				*	
	 should be impermeable/should not transmit flavour/impart flavour 				our	
					Any $(4 x^{1/2}) = 2$ marks	
3.	Nutritional disorders associated with lack of calcium in the body are:				(1,1,2) = 2 marks	
	- Osteomalacia /soft bones;					
	 rickets/bow legs/knock knees/weak bones; 					
	 osteoporosis/porous/brittle bone; 					
	-	weak	teeth			
4.	Rescore why charged must be red by the first start in the				$(2 x^{1/2}) = 1 \text{ mark}$	
	Reasons why charcoal must be red hot before roasting meat:					
	- to seal in the juices/prevent from drying/harden;					
	 to ensure food is free from smoke /getting black; to cook well; 					
	-	- to save time/cook faster.				
	to buve time/cook faster.				2 1 2 1	
5.	Arranging the food items into a three course meal				$2 \ge 1 = 2 $ marks	
	Course		Tomato sou			
	Course	II:	Stewed fish			
			Ugali			
			Saute kales			
	Course	III:	Vanilla cake	e / custar	d sauce.	
						$3 \ge 1 = 3 \text{ marks}$
	NB:					
	Award $\frac{1}{2} \times 2$ for each course.					
6.	Ways of preventing dandruff:					
	 do not share hair combs / brushes/hair equipment; 					
	 keep hair combs, brushes and towels/hair equipment clean; 					
	- wash hair/keep hair clean;					
	- oil the scalp regularly:					

- oil the scalp regularly;
- use medicated shampoos; -
- disinfect hair equipment. -

Any $2 \ge 1 = 2$ marks

4 4 E

- 7. Physical body exercises should be encouraged because they:
 - enhance blood circulation;
 - assist in burning down excess fat/prevent obesity;
 - enhance the removal of sweat / waste;
 - improve appetite;
 - strengthen the body/keep body fit/keep body active/flexible;
 - stimulate the brain/relaxes the mind;
 - simulate digestion;
 - enhances good grooming/appearance.
- 8. Soft furnishing used in the bedroom are:
 - curtains;
 - duvets / comforters/blankets ;
 - pelmets / valances;
 - rugs / mats;
 - carpets;
 - lampshades;
 - cushions/toys/puffed;
 - pillows;
 - bedspreads/bed covers;
 - sheets
 - wall hangings,/wall mats
 - mattress covers;
 - wall paper;
 - pillow cases;
 - table cover/chair cover;
 - cushion cover.

- Any 6 x $\frac{1}{2}$ = 3 marks
- Points to bear in mind when choosing a hurricane oil lamp
 - choose a popular brand whose spare parts are readily available;
 - ensure the glass, the chimney and handle fit in properly/parts fit in properly;
 - choose a size that will give adequate amount of lighting;
 - ensure the lamp is made of durable material;
 - ensure good workmanship of the entire lamp;
 - ensure the lamp is rust free;
 - ensure the lamp is working/the wick can move up and down.
- 10. Precautions to take after a snake bite on a limb
 - do not move the limb;
 - tie firmly around the limb just above the bite/compress;
 - suck out as much blood as possible/cut and bleed off;
 - wipe the bitten part/wash;
 - apply black stone/potassium permagranate;
 - seek medical attention.

Any $3 \ge 1 = 3$ marks

Any $3 \ge 1 = 3$ marks

vests;

be visible on one side of the garment only;

be flat on the right and wrong sides;

Garments made from elastomeric fabric include:

A well-made facing should:

be well knife edged; have straight stitchery.

- corsets:

- bikers:
- brassiers;
- boob tops;
- pants;
- stocking / hosiery
- camisoles;
- petticoats;
- boxers;
- body suits;
- briefs;

- slips.

spool pin : to hold the reel of thread while sewing and winding the bobbin.

prevent build up of static electricity prevent cloth from clinging to the body;

feed dog : to move fabric while sewing.

make ironing easier/reduces creasing;

Functions of the following parts of a sewing machine:

introduce a pleasant smell/good/nice/fragrance.

tension disc : to control the tightness or looseness of the thread during stitching/regulate/tension.

 $3 \ge 1 = 3 \text{ marks}$

15. Function of the Fishbone stitch is to hold two pieces of fabric together before darning.

1 mark

Any $3 \ge 1 = 3$ marks

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11. Competitive advertising is:

boiling;

steaming;

fumigation; dry under the sun; press with a hot iron.

Methods of sterilizing bath towels are:

use of disinfectants;

Uses of fabric conditioners, they:

make fabric soft to touch;

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the type of advertising used to promote/market/highlight/against (□) the sale of differ ent (D) brands of similar/same goods (D) and services where advertisers try to out do (D) each other by using gimmicks that sometimes create a negative/out do impression on the products of the competitor.

well described 2 marks

Any 2 x $\frac{1}{2} = 1$ marks

Any $2 \ge 1 = 2$ marks

- 18. Functions of pockets in a garment:
 - to hold items/keep/put/store;
 - decorative/beauty/attractive;
 - as a style feature/design. -
- 19. Reasons why easing is commonly worked on a crown of a sleeve; it:
 - controls fullness;
 - gives a good fit.

SECTION B

- 20.(a) Procedure to follow when laundering a silk blouse / shirts:
 - Collect all the equipment and laundry materials needed (1/2).
 - Shake to remove loose dust (1/2) if any -
 - Wash by kneading and squeezing $(\frac{1}{2})$ in warm $(\frac{1}{2})$ water using a mild $(\frac{1}{2})$ detergent _ soapy.
 - Rinse (1/2) several times/thoroughly in warm (1/2) water with the final rinse (1/2) in cold (1/2) water in which methylated spirit / vinegar (1/2) has been added.
 - Squeeze/roll $(\frac{1}{2})$ the blouse / shirt. Dry/roll with a clean $(\frac{1}{2})$ dry $(\frac{1}{2})$ towel $(\frac{1}{2})$ or
 - Dry $(\frac{1}{2})$ under a shade $(\frac{1}{2})$ on a clothes line $(\frac{1}{2})$ secured with pegs / hanger $(\frac{1}{2})$. _
 - Iron $(\frac{1}{2})$ using a moderately hot/warm $(\frac{1}{2})$ iron on the wrong side $(\frac{1}{2})$.
 - Air (1/2) to dry completely.
 - Fold/hang (1/2)/store/keep (1/2).
 - Clean equipment (1/2) used and store (1/2) appropriately.
 - (b) Steps to follow in the thorough cleaning of the dressing mirrors:
 - Collect all the equipment and materials required (1/2).
 - Remove dust $(\frac{1}{2})$ using a dry $(\frac{1}{2})$ cloth wipe /rub $(\frac{1}{2})$ the mirror using a cloth wrung $(\frac{1}{2})$ out of warm (1/2) soapy (1/2) water.
 - Rinse $(\frac{1}{2})$ using a cloth $(\frac{1}{2})$ wrung out of clean $(\frac{1}{2})$ warm $(\frac{1}{2})$ water.
 - Dry $(\frac{1}{2})$ using a clean dry $(\frac{1}{2})$ cloth/newspaper/sponge $(\frac{1}{2})$. _
 - Buff ($\frac{1}{2}$) mirror using a soft ($\frac{1}{2}$) clean dry ($\frac{1}{2}$) non-fluffy/ lintless cloth / newspaper ($\frac{1}{2}$).
 - Clean equipment used and store $(\frac{1}{2})$ appropriately $(\frac{1}{2})$.

(8 marks)

SECTION C

- 21. Points to consider when buying a sewing machines. (a)
 - Consider cost in relation to the functions to be done and the best that can be afforded.
 - Buy one with a guarantee/warranty or after sales service. _
 - Ensure all accessories/attachment are provided for efficiency in use.
 - Buy one that is not too complicated for the user for comfort/easy use/efficiency.
 - Buy from a reliable dealer who will be able to service/supply spare parts/guarantee. -
 - Check whether it is for commercial or domestic use, if commercial buy a heavy duty _ one/buy according to use for efficiency/serve its purpose.
 - Ensure that there is a manual for use to guide on proper use and care. _
 - Choose one that is versatile to give a variety of stitches and functions. _
 - Check that it is in a working condition to avoid buying a faulty machine. -
 - Buy the right size for the space available. _

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Any 2 x $\frac{1}{2}$ = 1 mark

Any $2 \ge 1 = 2$ marks

(12 marks)

- Buy that which can be afforded for satisfaction/not to strain you income.
- Buy a machine with readily available spare parts for easy replace. _

Any $4 \ge 2 = 8$ marks

Any $3 \ge 2 = 6$ marks

- (b) Care of a white Nylon shirt.
- Avoid exposure to direct sunlight as it will yellow.
- Avoid rubbing as it piles.

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- Avoid high temperature as it destroys the fibre/melts/burns/scorch.
- Do not bleach as it will turn yellow.
- Wash separately from coloured garments to avoid discolouration.
- (c) Differentiating between the following:
 - (i) Wear and tear:
 - Wear is when a garment develops signs of weakness and thinning(1) due to friction while a tear is a hole or straight cut (1) on a garment caused by a strong pull / sharp object.
 - (ii) Casing and hem;
 - A casing has two rows of stitching while a hem has one.
 - A casing has an opening for inserting elastics/cords while a hem is a way of finishing a row edge.
 - (iii) Regenerated and synthetic fibres.
 - Regenerated fibres are made from natural materials (1/2) which are chemically (½) treated while synthetic fibres are made from petroleum(1) products and natural gases.
 - Regenerated fibres are natural materials (½) treated with chemicals (½) while synthetics are purely chemicals (1).

 $2 \times 3 = 6 \text{ marks}$

- 22. Life styles associated with the following nutritional disorders. (a)
 - Gout High intake of alcohol and meat. (i)
 - Anorexia Nervosa refusal to eat in order to remain slender. (ii)
 - (iii) Hypertension - consumption of too much salt/stress.
 - Obesity high consumption of junk / processed foods/high intake of (iv) carbohydrates/fatty foods/sedentary lifestyle/lace of exercise.

 $4 \ge 1 = 4 \text{ marks}$

- Advantages of using convenience foods. (b)
 - They save on time, labour and fuel as little cooking is required.
 - They are handy because they can provide a quick snack/meal incase of unexpected guests/travel/picnic/being busy/less time.
 - They are economical since there is no wastage in preparation such as trimming, peeling or shelling.
 - They are attractive since colour is added during processing.
 - Seasonal foods can be made available as they can be canned / dried / bottled.
 - Nutritional value is enhanced as some foods are fortified.
 - They are easily/readily available since they are found in many outlets.
 - They give a chance to try new recipes as instructions are laid/they are partially prepared.
 - They are less bulky therefore easy to store and shopping.

Any $4 \ge 2 = 8$ marks

- (c) Factors to consider when setting a table.
- The number of people taking the meal as this determine the number of covers to be laid.
- The meal to be served as this ensures that all the tableware is available.
- Number of courses/dishes as this enables one to set the cover for the courses.
- Tableware as this determines their placement.
- Type of meal service as each type has its own way of laying the table.
- The type of dinners determines the way of table setting eg. ages, special needs.
- A centre piece should be available for beauty/enhance appetite.
- Provide adequate space to avoid overcrowding for comfort.
- Ensure the room is clean for hygiene.
- The table cloth should be well laundered for neatness.
- Table appointments should be clean for hygiene/enhance appetite.

Any $4 \ge 2 = 8$ marks

- 23. (a) (i) The two sources of light are:
 - Natural and artificial.
 - Any source of light eg. sun, moon, candle.

(1 mark),

- (ii) Reasons for providing appropriate lighting in a sickroom;
- To give clear visibility for ease caring of the sick/to avoid accidents.
- To avoid too dim a light that strains the eye of the sick.
- To avoid glare that strains the eye of the sick.
- To enhance interior decor making the room comfortable for the sick.
- To ensure the light is well distributed to avoid fatigue/pests/germs.
- To cheer the sick to promote quick recovery.
- To provide warmth to make the sick comfortable.

Any $3 \times 2 = 6$ marks

- (b) Points to observe in the care of lighting fixtures.
- Keep all lighting fixtures in good state of repair for efficiency and safety.
- Dust lighting fixtures regularly to get rid of loose dirt.
- Occasionally wipe with a damp cloth to remove marks.
- Ensure that movable lighting fixtures such as table or floor lamps can stand stable to avoid accidents/keep in a safe place to avoid breakage/destruction.
- Replace blown out bulbs promptly to ensure adequately light in each room.

Any $4 \ge 2 = 8$ marks

- (c) Possible causes of pre-mature birth:
- STI's/gonorrhoea, syphilis;
- anaemia;
- smoking of tobacco;
- low weight in pregnancy / poor weight gain in pregnancy;
- alcohol intake;
- poor nutritional status/malnutrition;
- high levels of stress / shock/trauma/accidents;
- cervical incompetence;
- serious infections such as pneumonia, malaria;
- use of hard drugs
- use of un-prescribed medicine
- performing difficult tasks;
- hypertension/high blood pressure.

Any $5 \ge 1 = 5 \mod 1$

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