4.14 HOME SCIENCE (441)

4.14.1 Home Science Paper 1 (441/1)

SECTION A (40 MARKS)

1.	Signs of symptoms of food poisoning - Nausea - Abdominal pain and cramps - Vomiting - Fever - Diarrhoea - Dizziness	Any 4 x $\frac{1}{2}$ = (2 marks)
2.	Definition of term nutrients Elements found in foods which when absorbed into the body promote growth, maintenance and repair of the body tissues as well as boosting immunity against illnesses.	Well defined = (2 marks)
3.	Functions of raw garnishes in the presentation of meals (i) Gives fresh colour making the meal colourful. (ii) Gives fresh flavour making the meal tastier. (iii) Makes the food more attractive/appealing. (iv) Provides vitamin C.	Any 2 x $1 = (2 \text{ marks})$
4.	Characteristics of foods that have been overcooked through prolonged boiling. (i) The foods tend to lose their flavor/taste. (ii) Some food nutrients are destroyed. (iii) Foods lose their shape/form. (iv) Foods may change their colour. (v) Foods change their texture, thus becoming mashy and soggy.	Any 2 x 1 = (2 marks)
5.	Difference between meal planning and meal management. Meal planning involves deciding what is to be eaten by individuals in order to meet their nutritional requirements while meal management involves acquiring ingredients, preparing, cooking and serving the food.	Well differentiated = (2
		marks)
6.	Water borne diseases are: (i) Bilharzia (ii) Amoebic Dysentery (iii) Typhoid (iv) Cholera	
V /		Any 4 x $\frac{1}{2}$ = (2 marks)
7.	Ways of sterilizing a baby's feeding equipment. (i) Boiling (ii) Using sterilizing solutions. (iii) Using an electric sterilizer	Any 2 x 1 = (2 marks)
	(iv) Using a microwave	
8.	Meaning of ante-natal care. It is the care given to an expectant mother from the time of conception to the time of delivery.	(2 marks)

9.	Benefit of increasing iron rich foods in a mother's diet.	,
	It replaces the amount of blood lost during delivery and also during menstrual period. Any 1 = (1 m of the blood levels used up in the formation of the foetus	
	during pregnancy.	
	To prevent anaemia	
10.	Advantages of a well lit room.	W 1 %
	(i) It reduces fatigue.(ii) It enhances clear visibility/reduces eye strain.	
	(iii) It enhances interior decoration.	,
	(iv) For efficiency.	Any 2 x 1 = (2 marks)
	(v) Discourages breeding of pests	,
11.	Limitations of burning as a method of refuse disposal.	
	(i) Emission of smoke during burning causes air pollution.	
	(ii) Not all refuse can be burned.(iii) If the refuse is not sorted out properly, some may cause	- 4
	explosion or injuries.	- ;
	(iv) Building incinerators may by expensive.	Any 2 x 1 = (2 marks)
12.	Difference between loose and fixed dirt.	-
	Loose dirt is composed of very small, light, organic or inorganic	
	particles which are carried from place to place by air or wind and	
	can be easily removed while fixed dirt is organic or inorganic particles that have stuck to the surface or article and is difficult to	
	remove.	Well differentiated = (2
		marks)
13.	Benefit of consumer protection.	- V
+	The consumer is safeguarded from exploitation by producers,	,
	traders and even other consumers. He/she is thus able to get goods and services that are of good quality, correct quantities and	n - 1
	at fair prices.	(1 mark)
14.	Disadvantages of buying goods by hire purchase.	
	(i) Final cost of items is high.	* # * * * * * * * * * * * * * * * * * *
	(ii) May lead to overspending/impulse buying/debts	
	(iii) An item that is not durable may wear out before the final payment is made.	Any 2 x 1 = (2 marks)
	(iv) Discounts are mot given.	Any $2 \times 1 - (2 \text{ marks})$
15.	Purposes of steeping a soiled handkerchief in cold salty water.	
	(i) To dissolve/loosen the mucus and thus make it easier to	
	clean the handkerchief.	
	(ii) To disinfect the handkerchief.	Any $2 \times 1 = (2 \text{ marks})$
16	Magning of laundry processes	7 my 2 x 1 - (2 marks)
16.	Meaning of laundry processes. Refers to the activities which clothes and articles undergo from	
	the time they are brought dirty to the time they are clean and	*
	ready for use.	(2 marks)

17.	Layers formed in construction of pleats.	- 4
	(i) Surface (top).	
	(ii) Underfold (fold back) (iii) Base (resting place)	Any 2 x $\frac{1}{2}$ = (1 mark)
		Any 2 x /2 – (1 mark)
18.	Functions of the following pattern markings.	, -
	(a) Notch),
	To match different pieces of fabric together before stitching.	x
	(b) Dart	(1 mark)
	- To shape garments.	
	- To control fullness in garments.	× ×
		Any 1 x1 =(1 mark)
19.	Preparations done on a fabric before cutting out.	DATA
	(i) Pre-shrinking.	e e g
	(ii) Graining	* 1 - *
IC	(iii) Ironing	,
	(iv) Transferring pattern markings	Any 2 x $1 = (2 \text{ marks})$
20.	Reasons why cotton fabric is popularly used for table linen.	1 8
	It; =	20.00
	(i) Is strong and can withstand frequent washing.	* * *
	(ii) Takes in starch easily.	
	(iii) Withstands high temperatures	
•	(iv) Comes in a variety of colours	3 *
	(v) Is easy to care for.	Any 3 x 1 = (3 marks)
21.	Difference between conspicuous and inconspicuous seams.	
	Conspicuous seams are used to join two pieces of fabrics	
	together with the stitches showing on the right (RS) of garment	
	to give a decorative effect while inconspicuous seams are used to	
	join two pieces of fabric together without the stitches showing on	200 200 300 300 320 300 300 300 300 300
	the right side (RS) of the garment.	Well differentiated =
		(2 marks)

SECTION B (20marks)

22. (a)	Procedure for thorough cleaning white canvas shoes without	
	shoes laces.	
	- Protect the work surface (½).	
	- Scrub (½) the inside (½) and outside (½) of the shoes with cold	
	soapy water (½) using a scrubbing brush (½).	,
	- Rinse thoroughly (½) in warm (½) water.	
	- Final rinse (½) in cold (½) water.	
	- Remove excess water (½).	
	- Use a sponge/piece of cloth (½) to apply whitener (½).	
	- Dry (½) in a warm place (½) slightly inclined (½).	9
	Turn to ensure all parts are dry $(\frac{1}{2})$.	
	- Store appropriately (½).	$18 \text{ x} \frac{1}{2} = (9 \text{ marks})$
(b)	Procedure for washing and starching a nurse's cap using boiling	
	water starch.	11
	- Soak (½) the cap in cold water (½).	
	- Wash in hot (½) soapy water (½) using friction (½) method.	
	- Rinse in warm water (½).	
	- Final rinse in cold water (½) squeeze out excess water (½).	
	- Use cold water (½) and starch powder (½) to make a smooth	
	paste $(\frac{1}{2})$ in a clean container $(\frac{1}{2})$.	
	- Gradually add boiling water (½) to the paste, stirring	
	vigorously ($\frac{1}{2}$) to obtain a clear ($\frac{1}{2}$) solution.	
	- Add equal amount of cold water (½).	
	- Immerse (½) the cap in the starch solution and allow it to	
	absorb $(\frac{1}{2})$ the starch.	
0	- Squeeze out excess starch (½).	
	- Dry the cap in the sun (½).	1
	- Iron with a hot iron $(\frac{1}{2})$.	
	- Store appropriately (½).	$22 \text{ x} \frac{1}{2} = 11 \text{ marks}$

SECTION C (40 MARKS)

	23. (a)	Forms of advertisement.		l
		(i) Print media advertising	, 4 ,	
E		This is a form of advertising that uses printed publications/	to perform to the second of the second	-
Ţ		materials such as newspapers, magazines, pamphlets,		
1		billboards and posters.	*	
		(ii) Electronic media advertising		
١.		This is a form of advertising that is created, distributed and	1	
		accessed using electronics such as radio, television, films		
V		and video.		
		(iii) Person to person/word of mouth		
1		This is a form of advertising where consumers are informed		
		about existence of a product or service and they are also		
		shown how to use and care for the product. It involves		
Þ		demonstrations and exhibitions.		
1		(iv) Celebrity advertising		
		This is using a famous person's image to sell products or services		
		by focusing on the person's money, popularity or fame to		
		promote the products or services.	$3 \times 2 = (6 \text{ marks})$	

(b)	 Benefits of providing a diet rich in vegetables. Vegetables provide roughage which assists in digestion. Vegetables are low in calories therefore prevent obesity. Vegetables provide vitamins for protection against diseases and infections. Vegetables provide minerals which are vital for strong bones and functioning of other body systems. Vegetables have a variety of colour making the meal attractive and thus stimulate appetite. 	3 x 2 = (6 marks)
(c)	 Precautions to take to prevent the occurrence of food poisoning when handling left over foods. Ensure proper preservation /storing in a clean safe place of left over foods to prevent contamination. Reheated dishes should be thoroughly heated to destroy germs/bacteria. Any remains from already reheated dishes should not be used again. Large pieces of protein foods should be cut into small pieces to ensure proper heating on the inside. Serve the reheated foods immediately to avoid exposure to 	
	micro-organisms that may cause deterioration of the food.	Any 4 x 2 = (8 marks)
24. (a)	Factors to consider when choosing a wooden clothes' drying rack. (i) The cost should be affordable.	
	 (ii) It should be smooth to avoid damaging delicate fibres. (iii) The design should be one that can be folded easily when not in use. (iv) The size should be one that can accommodate the wash. 	
		Any $2 \times 2 = (4 \text{ marks})$
(b)	Points to observe on the care of a sewing machine.	
	- After use, place a piece of cloth between the pressor foot and	
	the feed dog to soak up excess oil. Clean and oil the machine regularly with the oil recommended	present the
	by its manufacturer.	
	- Cover the machine with a cloth or its lid and then store in a	
	clean place	
	- Those learning how to stitch should be supervised during	
V /	machining sessions.	
	- Dust and wipe the machine before use.	Any $4 \times 2 =$
	- Do not machine over pins to avoid breaking the needle.	(8 marks)

(c)	Effects of the following practices when laundering wool.		
	(i) Soaking		
	If woolens are soaked they absorb and hold a lot of water which		
	can damage the wool fibres if exposed for too long.		
	(ii) Using cold water		
	Cold water will cause the wool fibres to shrink and therefore lose	J.	
	shape.	1	
1()	(iii) Drying under direct sunlight.		
	When wool is exposed to direct sunlight it weakens and if it is		
	white it may turn yellow. Also makes wool coarse.		
	(iv) Using friction method		
	Washing woolen articles by friction method will stretch the		Any 4 x 2 =
	fabric and hence lose shape.		(8 marks)
25. (a)	Precautions to take when using electricity in the house.		(o manta)
()	(i) Socket should not be overloaded.		
10.3	(ii) Electric wires should be properly insulated to avoid	_ *	
	accidents.		
	(iii) Electric switches should not be handled with wet hands to	12	
	avoid electric shock.	×	
	(iv) Always put off electric gadgets when not in use.	×	
	(v) The electric sockets should not be poked with objects	6	
	especially metallic.		
	(vi) Observe regular maintenance of electric equipment.		Any 6 x 1 =
W	(vii) Use a three pin plug or an adaptor.		(6 marks)
\ /	(vii) Ose a timee pin plug of an adaptor.		(O marks)
(b)	Factors to consider when building a house.		
	(i) Site/location		
	It should be close to social amenities such as access roads, water,		
	electricity, sewerage system, hospital, shops and schools	9	
	for convenience.	2	
	(ii) Neighbourhood		
	It is important to know the immediate environment for security		
	reasons, social interactions. Avoid being near factories,		
	airports and sewage plants for health reasons.		
	(iii) Size of the family		
	The size of the house will be determined by the number of		
	family members, their gender, their activities, and their		
	social orientation. Where there are children of both		
	gender then more rooms are necessary.		
	(iv) Cost		
	Go for what one can afford, consider the cost of things such as		
	cost of land, architect fee, legal fees, cost of materials and		
	labour to be incurred.		
	(v) Drainage		
	Ensure the site drains well to avoid flooding during rainy season.	,	Any 4 x 2 =
	Good drainage will also support the foundation of a house		(8 marks)
	firmly.		(0 111111)
	M. Control of the Con		

(c)	Types of play that contribute positively to the development of	
	a child.	
	(i) Physical play	
	Activities requiring the child to use his body muscles. This	:
	includes activities such as running, jumping and	
	climbing and will help in exercising different parts of	a
	the body muscles and thus remain physically fit.	
	(ii) Imaginative play	* _
	This helps children to act out their feelings and fantasies. For	
	example they do role play of the grown-ups in their	
	lives.	
	(iii) Manipulative play	= n
	This type of play enables children to use the limbs. Playing	_
	with sand, water, seeds, soils, containers gives them	
	enjoyment and also teaches them things such as size,	
	volume, colours and shapes of objects.	
	(iv) Creative play	
	This type of play helps a child to express themselves through	
	painting, colouring, modelling and paper cutting. It	, "
	helps in the coordination of hands, eyes and develops	
		A 2 2
	the smaller muscles of the body.	Any $3 \times 2 =$
		(6 marks)