30.12 HOME SCIENCE (441)

30.12.1 Home Science Paper 1 (441/1)

1.

- Vital for every body cells/maintains turgidity of body cells.
- Provides minerals, for example:- zinc, copper, etc.
- Transportation of nutrients.
- Eliminates waste.
- Digestion.
- Controlling body temperature.
- Regulating fluidity of body fluids.
- Lubricating parts of the body.
- Dissolves foods.
- Prevents dehydration.
- Acts as a medium of body metabolism.
- Controls body pH.
- Acts as a solvent for various substances in the body.

(Any 3x1=3 marks)

2.

- Making salads.
- Making appetizer.
- Used as accompaniment.
- Making stock/soup.
- Making juice.
- Making stew.
- Used as a vegetable dish.
- Used as a snack.
- Used as a base when roasting.
- Used in braising.
- Used as a garnish.
- Adds colour.
- Adds flavour.
- Adds nutrients.

 $(Any 6x\frac{1}{2} = 3 marks)$

3.

- Sudden contraction/warping/distorted shape.
- Shortened life span/develop hot spots/burns food/develops holes.

 $(2 \times 1 = 2 \text{ marks})$

4.

- Heating to kill micro organisms.
- Removing air to prevent development of bacteria.

 $(2 \times 1 = 2 \text{ marks})$

5.

- *AIDS*:- Acquired Immune Defficiency Syndrome.
- **TBA**:- Traditional Birth Attendant.

 $(2 \times 1 = 2 \text{ marks})$

6.

- Hypertension/heart disease/heart attack.
- Stretch marks.
- Diabetes.
- Cellulites.
- Kidney disease.
- Tiredness and shortness of breath.

(Any 2x1 = 2 marks)

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7.
         Meeting nutritional needs of the mother.
         Social preparation of the expectant mother.
         Psychological preparation of the expectant mother.
         Voluntary counselling and testing of H.I.V. of the parents.
        Correct age of the parent.
                                                                                  (Any 3x1 = 3 marks)
8.
         Near good road network for ease of communication.
         Near a health facility.
        Near a shopping centre.
         Well drained.
        Near a clean water supply.
         Safe neighbourhood.
         Validity of ownership/legally acquired.
         Should be within family's financial means/cost.
                                                                                  (Any 3x1 = 3 marks)
9.
         Clean all beddings.
        Observe strict hygiene/observe cleanliness of the room.
         Air beddings regularly.
         Ventilate rooms.
        If furniture is infested spray with insecticide/pesticide.
        Pour boiling/hot water.
         House should be well lit.
                                                                                  (Any 3x1 = 3 marks)
10.
         In case of emergency a consumer can access goods and services.
        Can be used at any time of the day or night.
         Some credit cards give cash credit.
         It is relatively safer to carry than carrying cash money.
         Not bulky.
         Save time and energy.
        Convenient in use.
                                                                                                    (Any 3x1 = 3
         marks)
11.
         Acrylic.
         Wool.
         Silk.
         Polyester.
                                                                                                    (4 x \frac{1}{2} = 2 \text{ marks})
12.
         Damping articles.
         Protecting articles from scotching/burning/getting damaged.
        Preventing sheen on articles.
         Protect articles from direct heat of the iron.
         Improve/enhance appearance of articles.
                                                                                           (Any 3x1=3 marks)
13.
         Remove unwanted stitches.
        Cutting through buttonholes.
                                                                                                    (2 \times 1 = 2 \text{ marks})
14.
         Lacing.
         Using a bias binding.
         Using ric rac.
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Shell edging.

- Hemming/machine/edge-stitching.
- Using zig zag stitches/loop stitches/satin/overlock/buttonhole stitches.
- Crocheting.
- Scalloping.
- False hem.
- Facing/ribbon/crossway strip.marks)

 $(Any 6x\frac{1}{2}=3)$

15.

- To give body.
- To strengthen.
- To add firmness/to stiffen/crisp.
- To give shape.
- To prevent stretching.

(Any 2x1=2)

marks)

- 16. *Natural fibres* are obtained from natural products (plants, animals, minerals) while *man-made fibres* are manufactured from synthetics and regenerated. *(2 marks)*
- 17. (a)
 - Dust the surface with a soft cloth/duster.
 - Wring out the soft cloth in warm soapy water/warm water with vinegar added to it and wipe the surface carefully.
 - Rinse using soft cloth wrung in warm water.
 - Dry thoroughly with a dry soft cloth.
 - Rub with a little furniture cream polish/linseed oil/cold black tea.
 - Buff to shine. (6x 1 = 6 marks)

(b)

- Identify type of fabric before choosing stain removal agent.
- If alkaline stain based, use acidic and vise versa.
- Remove stains from the outside to the inside.
- Remove stains when they are fresh.
- Use specific stain removal agents for stains that are clearly identified.
- If the nature of the stain is not known, try the least harmful method first.
- Use correct procedure when removing stains.
- When treating stains, try several weak applications of the stain removal agent rather than one strong one.
- Stain removal agents must be used in the recommended form.
- When fabric is immersed in solution, it should not be allowed to stay longer than necessary.
- Once the stain is removed, the articles should be washed immediately to remove traces of the agent.
- Work on the stain before washing.
- Identify the type of stain first.

(Any 6x1=6 marks)

(c)

- Flush the toilet/pour water.
- Sprinkle some toilet cleaner /detergent and leave for some time.
- Clean with a toilet brush/broom.
- Flush the toilet again/pour water/rinse.
- Clean the floor with a mop and disinfectant.
- Ensure fresh air/leave window and door ajar for a while/use air freshner.
- Sprinkle water/disinfectant.
- Pour ash on the floor.
- Levelise ash/sweep with broom.
- Ensure enough toilet paper/leaves/enough water.
- Ensure fresh air.
- Clean outside the toilet.
- Pour water.
- Detergent.

- Scrub.
- Brush/broom.
- Rinse.
- Disinfect.
- Toilet paper.

Air. (8 marks)

18. (a)

Food items served alongside others although they may not form part of the main menu.

(1 mark)

• Foods that have a salty taste/not sweet/sour.

(1 mark)

Substances which when added to foods enhance taste.

(1 mark)

(b)

- Type of diners, for example:- age, status.
- Number of courses to be served.
- Provide adequate spacing on the table.
- Type of food service to be used.
- Table linen should be clean.
- Table linen should be well starched.
- Table mats should be heat resistant.
- Cutlery should be clean.
- Cutlery should be well polished.
- Crockery should be adequate.
- Cruets and water jugs should be filled and placed within reach.
- Flower arrangement should be low/centre piece should be present.
- Cover items should be appropriately placed.
- Table linen should be well pressed.
- Number of people eating the meal.

(8 marks)

(c) (i) It is a guide/plan for spending the available income of a family or an individual on food. (2 marks)

(ii)

- It enables an individual or family to plan for food requirements within their income.
- It helps in setting of food priorities.
- It enables one to plan for future meals.
- It helps in controlling and limiting food expenses/minimizes impulse buying.
- It is an organized method for accumulating savings for future use.
- It helps in meeting the set goals or obligations for a family/individual.
- The family/individual gets some satisfaction.
- It guides a family/individual on expenditure on food.
- Ensures that the family/individual vary their meals. (Any 7x1=7 marks)

19. (a)

- Prevent accidents.
- Free the house from dampness.
- Keep off bad odours/smells.
- Destroy breeding places for pests.
- Keep the surroundings neat.
- Keep the surroundings free from pools of stagnant water. (Any 4x1=4 marks)

(b)

- They pose danger to people/domestic animals in that they can fall into them and get hurt or drown.
- They cause soil erosion because the edges of uncemented ones continue to wear out.
- They can be unsightly due to accumulation of rubbish. Smelly due to the accumulation of waste water not cleared constantly.
- Pests can breed in them and this can become a health hazard.
- May encourage damping thus posing a danger to health.

Can cause stagnant water/floods which can cause accidents. (Any 4x2=8 marks)(c) Proper disposal of faeces and urine. Treating/boiling water for use in the house. Washing hands before handling food and after visiting the toilet/pit latrine. Thoroughly washing food preparation and service utensils before use. Thoroughly cleaning food preparation areas. Thoroughly washing fruits and vegetables before service. Ensuring food handlers are clean. Ensuring food handlers under go regular medical check-up. Ensuring food handlers are free from typhoid. Encouraging vaccination against typhoid/encouraging immunisation Thoroughly cook food. (Any 8x1=8)marks) (a) Raglan. Puff-sleeve. Bishop sleeve. Bell. Magyar/short kimono. Leg of mutton. Kimono/long kimono. Dolman. $(Any 6x\frac{1}{2} = 3)$ marks) (b) Hem opening. Bound opening. Faced-slit opening. Continuous wrap opening. Piped opening. Zipped opening. (Anv 3x1=3)marks) (c) Its head has a slight rather shallow curve at the back. It is well rounded. It has a hollow curve at the front area. $(3 \times 1 = 3 \text{ marks})$ (d) Place the sleeve in the armholes R.S. facing. Match and pin the fitting lines, notches/balance marks and under arm seams. Working from the W.S. of the bodice, pin the rest of the sleeve to the armhole. Ease in/distribute the fullness across the crown of the sleeve and pin. Check the sleeve/test for food hang. Tack along the stitching line. Remove pins. Machine along the fitting line. Remove tackings. Trim the armhole seam allowance to 6 mm to 1 cm. Neaten the seam. (11 Press. marks)

20.

30.12.2 Home Science Paper 2 (441/2)

1.	Prese	entation			
	(a)	Work well pressed and folded.	(1½ marks)		
	(b)	Label firmly fixed without concealing details on a single fabric.	(2½ marks)		
	(c)	Pins/needles, unnecessary tacking threads and loose threads removed.	(1½ mark)s		
	(d)	Made up for the left side.	(1 mark)		
2.	Cutting Out				
	(a)	All five pieces cut out.	(2½ marks)		
	(b)	Smooth cutting of the blouse C.B. and cut on straight grain to within 2 mm.	(3 marks)		
	(c)	Smooth cutting of collar C.B. and cut on straight grain.	(3 marks)		
	(d)	Smooth cutting of the armhole.	(4 marks)		
3.	Shoulder Seam (Open Seam)				
	(a)	Seam joined with straight stitchery.	(1 mark)		
	(b)	Well neatened raw edges.	(2 marks)		
	(c)	Evenness of seam allowance.	(1 mark)		
	(d)	Correct size of seam allowance (0.8 cm – 1.2 cm).	(1 mark)		
	(e)	Seam pressed open and flat at the neckline.	(1 mark)		
4.	Side	Seam (French Seam)			
	(a)	Seam well trimmed that is, no threads on the R.S.	(1 mark)		
	(b)	Straight stitchery.	(2 marks)		
	(c)	Seam well knifed edged.	(1 mark)		
	(d)	Evenness of seam.	(2 marks)		
	(e)	Correct size (6mm) to within 2mm (4-8mm).	(2 marks)		
	(f) (g)	Seam pressed towards the back at the hem. Flatness of seam at hem on R.S. and on W.S.	(1 mark) (1 mark)		
5.	Colla		(1 mark)		
٥.	Com	•			
	(a)	Smooth outer edge of collar.	(2 marks)		
	(b)	Collar seam trimmed and snipped.	(2 marks)		
	(c)	Collar well knife edged with a sharp point.	(2 marks)		
	(d)	Correct shape and size (superimpose the collar pattern) to within 5mm.	(2 marks)		
	(e)	Flatness of attached collar R.S. and W.S.	(2 marks)		
	(f)	Collar attached by sandwiching it between blouse front and facing.	(1 mark)		
	(g) (h)	Attaching seam made with straight stitchery. Seam trimmed and snipped.	(1 mark) (2 marks)		
	(i)	Positioning of collar C.F. of blouse flash with C.F. of collar and C.B. of blouse flash with	(2 marks)		
	(1)	C.B. of collar to within 3mm.	(2 marks)		
		C.B. of comm to what Jimi.			

(j)	Quality of hemming stitches.	(2 marks)		
(k)	Quality of neatening the free edge of facing.	(2 marks)		
(1)	Quality of diagonal stitches.	(2 marks)		
(m)	Facing firmly held at the shoulder seam.	(2 marks)		
5. Pato	Patch Pocket			
(a)	Hem correctly finished, that is, raw edges well tucked under.	(1 mark)		
(b)	Straight stitchery of pocket hem.	(1 mark)		
(c)	Attached with straight stitchery and close to the edge.	(3 marks)		
(d)	Raw edges of seam well tucked under.	(1½ marks)		
(e)	Seam pivoted at the corners.	(1 mark)		
(f)	Pocket mouth appropriately reinforced.	(2 marks)		
(g)	Seam allowance evenly trimmed and snipped at the corners.	(4 marks)		
(h)	Flatness of attached pocket on the R.S. and W.S.	(2 marks)		
(i)	Correct shape and size of attached pocket (superimpose pattern piece to within 5mm).	(2 marks)		
. Blou	Blouse Hem (Machine Stitched)			
(a)	Straight machine stitchery.	(2 marks)		
(b)	Even tacks appropriately made:-	(3 marks)		
` '	Close to fold.	,		
	 Straight. 			
	 Raw edges well tucked under. 			
(c)	Evenness of hem.	(2 marks)		
(d)	Size of hem, 1cm to within 2cm.	(2 marks)		
(e)	Flatness of hem.	(2 marks)		
(f)	Hem appropriately finished at the C.F. with a pointed corner trimmed.	(2½ marks)		