

ANSWER KEY

Code No

54 528

SECOND YEAR HIGHER SECONDARY EXAMINATION MARCH 2023

PART-I/II/III

SUBJECT: HOME SCIENCE60 SCORES2 HOURS

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
		<u>PART A</u>		
1		Vitamine E.	1	1
2.		1 gram	1	1
3		Pasteurization.	1	1
4		Indian Council of Medical Research	1	1
5		Osteoporosis	1	1
6.		Canning	1	1
7.		Under weight	1	1
8.		Rearrangement of meals	1	1
9.		cord yarns	1	1
10		Reed	1	1
11		Bleaching	1	1
12		Block printing is the new method of printing design on fabric	1	1

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
13.		Extension education	1	1
14		Receiver	1	1
15		<p style="text-align: center;">PART B.</p> <ul style="list-style-type: none"> <li>- Severe growth retardation</li> <li>- Loss of subcutaneous fat</li> <li>- Shrivelled body</li> <li>- Bony prominence</li> <li>- Vitamin deficiencies (associated)</li> <li>- Failure of thrive</li> <li>- Weak muscles.</li> <li>- Dehydration.</li> </ul> <p>[Any 2 valid points can be scored]</p>	<p style="text-align: center;">1</p> <p style="text-align: center;">1</p>	2
16.		<ul style="list-style-type: none"> <li>- Reference women is between 20 - 39 years age.</li> <li>- Healthy and weight about 55 kgs.</li> <li>- Engaged for 8 hours in general house hold work.</li> <li>- 8 hours in bed</li> </ul>		

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
		<p>- Spend 4-6 hours sitting or moving around only through light activity</p> <p>- 2 hours walking or in active recreation or in house hold duties.</p> <p>[Any 2 points]</p>	<p>1</p> <p>1</p>	<p>2.</p>
17.		<p><u>Macrocytic anaemia</u> Erythrocytes are abnormally large, saturated with haemoglobin</p> <p><u>Microcytic anaemia</u> Erythrocytes are smaller, sometimes contain little haemoglobin</p> <p>[Any 2 points can be scored]</p>	<p>1</p> <p>1</p>	<p>2.</p>
18		<p>- Filament fibre</p> <p>- Staple fibre</p>	<p>1</p> <p>1</p>	<p>2</p>

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
19		<ul style="list-style-type: none"> <li>- Linen can absorb more moisture.</li> <li>- linen can absorb perspiration</li> <li>- cooling occurs when sweat evaporates.</li> <li>- good conductor of heat</li> </ul> <p>(Any 2 points)</p>	1  1	2
20		<ul style="list-style-type: none"> <li>- Amount of twist.</li> <li>- Direction of twist</li> <li>- Degree of balance</li> </ul> <p>(Any 2)</p>	1  1	2
21		<ul style="list-style-type: none"> <li>- The fabric become strong and durable</li> <li>- The fabric become more compact</li> <li>- Increases the glaziness and lustre and gives a silk like appearance</li> <li>- Absorbency increases.</li> <li>- Dyed in fast colours</li> </ul> <p>(Any 2)</p>	1  1	2

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
22		Rib Weave Basket Weave	1 1	2
23		- Temporary finishes - Semi durable finishes - Durable finishes - Permanent finishes	1/2 1/2 1/2 1/2	2
24		<p>Formal education      Extension education</p> <p>- Starts with theory and works up Practical.      starts with practicals and may take up theory later on.</p> <p>• Fixed Curriculum      No fixed curriculum</p> <p>• Authority rest with the teacher      Authority rest with the people</p> <p>• Class attendance is compulsory      participation is voluntary</p> <p>• Teaching is mainly vertical      Teaching is mainly horizontal</p> <p>• It is rigid      It is flexible.</p> <p>(Any 2 points)</p>	1  1  1  1	2

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
25		<p style="text-align: center;"><u>PART C</u></p> <p style="text-align: center;">Proteins.</p> <div style="text-align: center;"> <pre> graph TD     A[Proteins] --&gt; B[Complete proteins]     A --&gt; C[Incomplete proteins]     C --&gt; D[partially complete proteins]           </pre> </div> <p><u>Complete protein</u> : has a good proportion of essential amino acids</p> <p><u>Partially Complete proteins</u> - have sufficient amount of some essential amino acids.</p> <p><u>Incomplete proteins</u> - have one or more amino acids</p> <p>{ Any <del>other</del> valid points can be scored }</p>	1  1  1  1	4

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
26		<p><u>Energy yielding food</u></p> <p>Energy yielding nutrients are carbohydrates and fat.</p> <p><u>Protective and regulatory food</u></p> <p>vitamins and minerals are protective and nutrients. Water and fibre are the regulatory food</p> <p>[Any valid points can be scored]</p>	<p>2</p> <p>2</p>	<p>4.</p>
27		<ul style="list-style-type: none"> <li>- Improper handling</li> <li>- Improper storage</li> <li>- Inadequate preparation and cooking</li> <li>- Careless packaging</li> <li>- Invasion of harmful microorganisms.</li> <li>- Spoilage of enzymes.</li> <li>- Spoilage of insects, parasites and rodents</li> </ul> <p>Any 2 points with explanation can be scored; <del>and</del> any 4 points can be scored</p>	<p>1</p> <p>1</p> <p>1</p> <p>1</p>	<p>4</p>

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
28		<ul style="list-style-type: none"> <li>- Inlap on ends</li> <li>- Bias</li> <li>- Fabric Count</li> <li>- Balance</li> <li>- Selvedge</li> <li>- Grain line</li> </ul> <p>[Any 2 with explanation or any 4 points can be scored].</p> <p>Womens fabrics can also be scored.</p>	<p>1</p> <p>1</p> <p>1</p> <p>1</p>	4
29		<p><u>Verbal Communication</u></p> <p>Communication with words is called verbal communication, which can be written, oral or visual.</p> <p><u>Non Verbal Communication</u></p> <p>Non verbal communication is communication that is neither written nor verbal.</p>	<p>2</p> <p>2</p>	4
30		<p>Solution dyeing</p> <p>Stock dyeing</p> <p>Yarn dyeing</p> <p>Fabric dyeing</p> <p>Product dyeing</p>	<p>2</p> <p>2</p>	4

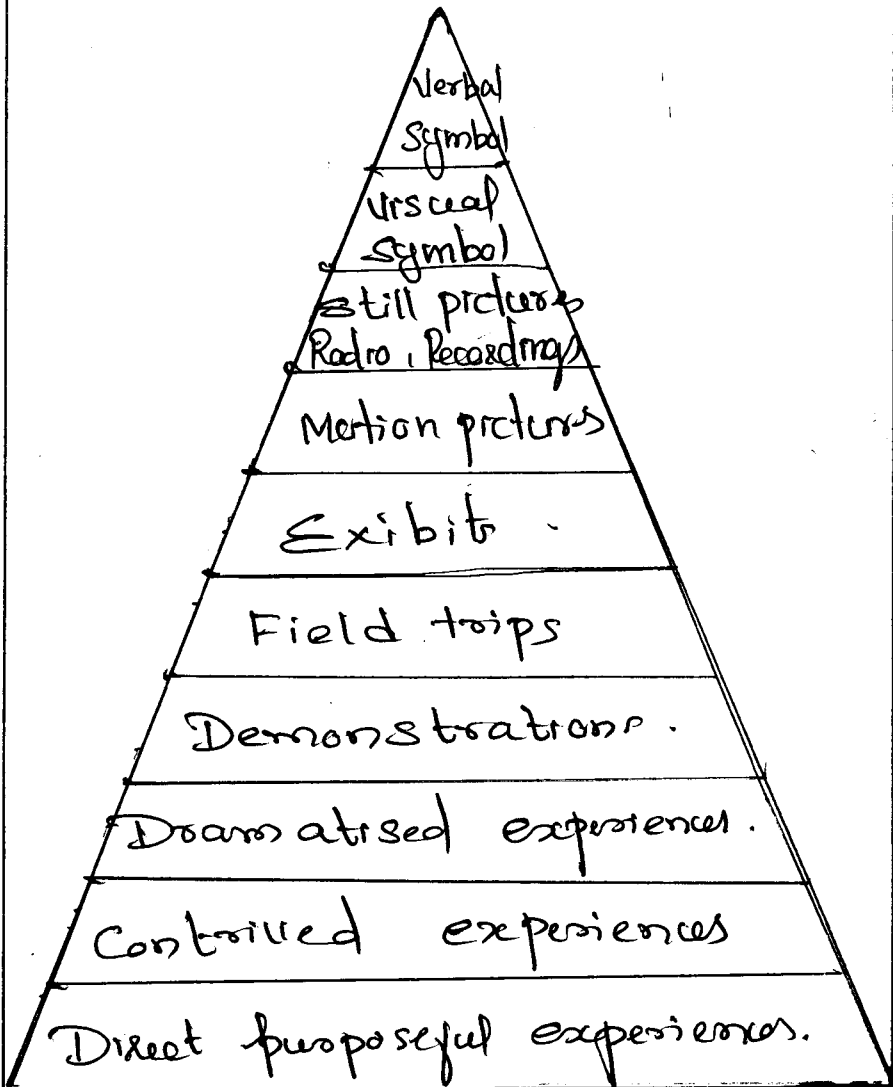


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Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
		<p>Any 2 with explanation or Any 4 points.</p>		
31		<p style="text-align: center;"><u>PART D</u></p> <p><u>Carbohydrates</u></p> <ul style="list-style-type: none"> <li>• Supply energy for the body</li> <li>• 1gm of carbohydrates provides 4.3 kcal of energy.</li> <li>• Protective and detoxifying action on the liver</li> <li>• Used for heat for the muscular activities</li> <li>• for nervous tissues to function</li> <li>• protein sparing action</li> <li>• Synthesis of non-essential amino acids</li> <li>• essential for the oxidation of fat</li> <li>• Flavour and variety to the diet.</li> </ul> <p>Any <del>other</del> 3 valid points can be scored</p>	3	

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
32		<p><u>Vitamin A</u></p> <ul style="list-style-type: none"> <li>• Essential for building cells.</li> <li>• enables growth of all cells.</li> <li>• helps normal tooth formation</li> <li>• Normal reproductive function in males</li> <li>• maintains normal vision</li> <li>• Anti infective vitamins</li> <li>• Fight against cancers of skin</li> <li>• Reduces the risk of heart diseases.</li> </ul> <p>(Any 3 valid points can be scored)</p> <p><u>Cotton</u></p> <p><u>Composition</u> : 88-90% cellulose 5-8% water and other impurities</p> <p><u>Structure</u> : Narrow, flattened with spiral twist.</p> <p><u>length</u> - Staple fibre 1/25"</p> <p><u>Strength</u> - Strong</p> <p><u>Moisture absorption</u> - Good absorbent Suitable for summer</p> <p><u>Shrinkage</u> - Shrinks.</p> <p><u>Resilience</u> - low resilience.</p> <p><u>Effect of friction</u> - Affected.</p> <p><u>Effect of heat</u> - Affected.</p> <p><u>Effect of sunlight</u> - Bleaches white fabric.</p>	<p>3</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p>	<p>6</p> <p>6.</p>

(Any 6)

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
33		<p style="text-align: center;">Dale's Cone of Experience.</p> 	<p style="text-align: center;">1 Dramatising</p> <p style="text-align: center;">5</p>	<p style="text-align: center;">6</p>

1. SREEJA . K . C - 9496545990

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2. SANGEETHA . O . C - 9497609835

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3. ANJANA . V

- 9497330203

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