

1/10

ANSWER KEY

.....<sup>nd</sup> YEAR HIGHER SECONDARY EXAMINATION ...March... 2024

PART-I/II/III

SUBJECT: ...HOME...SCIENCE.....

CODE NO: SY...528

VERSION: P.....

60 SCORES

2 HOURS

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
1.		Food preservation	1	1
2.		Reference man	1	1
3.		- Plain weave - Twill weave - Satin weave [Any one from the above]	1	1
4		Needle felt	1	1
5.		Aesthetic finishes	1	1
6.		Block printing	1	1
7.		Human relations, Empathy, Dialogue, Persuasion, Information, Influencing, Understanding, Discouraging misinformation, Suggestions and complaints, Free exchange, Better relations, Fostering attitude. [Any one from the above]	1	1

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
8.		<ul style="list-style-type: none"> <li>- Direct printing</li> <li>- Resist printing</li> <li>- Discharge printing</li> <li>- Mordant printing</li> <li>- Transfer printing.</li> </ul> <p>[Any two from the above]</p>	<p>1 1</p>	2
9.		Monofilaments and Multifilaments	1+1	2
10.		<ul style="list-style-type: none"> <li>- Improves the taste and quality</li> <li>- Destruction of micro organisms</li> </ul>	<p>1 1</p>	2
11.		<p>Carbohydrate - Marasmus</p> <p>Iron - Anaemia</p> <p>Vitamin C - Infantile scurvy</p> <p>Water - Oedema</p>	<p>1/2 1/2 1/2 1/2</p>	2
12.		<ul style="list-style-type: none"> <li>- The simplest method.</li> <li>- Does not require special skill and equipment.</li> <li>- Soluble starches can be removed</li> <li>- and rice grains are separated</li> </ul>	<p>1 1 1</p>	3

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
13.		<p>- Proteins gets denatured, starch gets gelatinized and collagen gets hydrolysed.</p> <p>- Uniform cooking can be done</p> <p>[Any three valid points can be scored]</p> <ol style="list-style-type: none"> <li>1. Age</li> <li>2. Sex</li> <li>3. Body size and frame</li> <li>4. Physiological status</li> <li>5. Type of work.</li> </ol> <p>[Any one valid point <del>under</del><sup>above</sup> each can be scored]</p>	<p><math>\frac{1}{2} + \frac{1}{2}</math></p> <p><math>\frac{1}{2} + \frac{1}{2}</math></p> <p><math>\frac{1}{2} + \frac{1}{2}</math></p>	3
14.		<p>- Temperature below 100°C [Pasteurization]</p> <p>- Temperature of boiling water 100°C [Boiling]</p> <p>- Temperature above 100°C [canning]</p> <p>[Any one valid point under each can be scored]</p>	<p><math>\frac{1}{2} + \frac{1}{2}</math></p> <p><math>\frac{1}{2} + \frac{1}{2}</math></p> <p><math>\frac{1}{2} + \frac{1}{2}</math></p>	3
15		<p>- Single yarn</p> <p>- Ply yarn</p> <p>- Cord yarn</p> <p>[Any one valid point <del>under</del><sup>above</sup> each can be scored]</p>	<p><math>\frac{1}{2} + \frac{1}{2}</math></p> <p><math>\frac{1}{2} + \frac{1}{2}</math></p> <p><math>\frac{1}{2} + \frac{1}{2}</math></p>	3

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
	16.	<ul style="list-style-type: none"> <li>- Solution dyeing</li> <li>- Stock dyeing</li> <li>- Yarn dyeing</li> <li>- Fabric dyeing</li> <li>- Product dyeing</li> </ul> <p>[Any one valid point <sup>above</sup> <del>under</del> each can be scored]</p>	$\frac{1}{2} + \frac{1}{2}$ $\frac{1}{2} + \frac{1}{2}$ $\frac{1}{2} + \frac{1}{2}$	3
	17.	<ul style="list-style-type: none"> <li>- Material - Increase production, income</li> <li>- Educational - change the outlook of people or transform the individuals.</li> <li>- Social and cultural - development of the community</li> </ul>	   	3
18		<ul style="list-style-type: none"> <li>- Night blindness</li> <li>- Bitots spots</li> <li>- Phrynoderma</li> </ul> <p>[Any two from the above with explanation]</p>	   	4

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
19.		<p><u>Acute diarrhoea</u> - Caused by eating unhygienic, infected and stale food. Its duration lasts for 1-3 days. It is characterized by loose, watery stools, abdominal pain, fever and vomiting.</p> <p><u>Chronic diarrhoea</u> - Lasts for a much longer period. Caused by the intake of some irritant or stale food. Water electrolyte balance is disturbed.</p> <p>[Any two points from each can be scored]</p>	1+1	4
20.		<ol style="list-style-type: none"> <li>① Improper handling</li> <li>② Improper storage</li> <li>③ Inadequate preparation and cooking.</li> <li>④ Careless packaging</li> </ol>	$\frac{1}{2} + \frac{1}{2}$	

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
		<ul style="list-style-type: none"> <li>- Invasion of harmful micro-organisms.</li> <li>- Spoilage by enzymes</li> <li>- Spoilage by insects, parasites and rodents.</li> </ul> <p>[Any four points from the above with explanation]</p>	<p><math>\frac{1}{2} + \frac{1}{2}</math></p> <p><math>\frac{1}{2} + \frac{1}{2}</math></p> <p><math>\frac{1}{2} + \frac{1}{2}</math></p>	<p>4</p>
21.		<ul style="list-style-type: none"> <li>- Warp or end</li> <li>- Bias</li> <li>- Fabric count</li> <li>- Balance</li> <li>- Selvedge</li> <li>- Grain line</li> </ul> <p>[Any four points with explanation]</p>	<p><math>\frac{1}{2} + \frac{1}{2}</math></p> <p><math>\frac{1}{2} + \frac{1}{2}</math></p> <p><math>\frac{1}{2} + \frac{1}{2}</math></p> <p><math>\frac{1}{2} + \frac{1}{2}</math></p>	<p>4</p>
22.		<p>Bleaching - It is the chemical treatment given to fabric, yarn or fibre to improve whiteness. Suitable bleaching</p>		



Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
		<p>agents are used to remove the colour and impurities. It helps in easy dyeing and printing.</p> <p><u>Mercerization</u> - To make cotton fabric more attractive mercerization is done. This makes the fabric strong and durable. Absorbency increases.</p> <p>[Any two valid points can be scored] (<sup>above</sup><del>under</del> each)</p>	<p>1+1</p> <p>1+1</p>	4
23.		<ul style="list-style-type: none"> <li>- Co-ordination</li> <li>- Smooth working</li> <li>- Effective decision making</li> <li>- Managerial efficiency</li> <li>- Co-operation</li> <li>- Effective leadership</li> <li>- Job satisfaction</li> <li>- Increase productivity</li> <li>- Morale building</li> <li>- Achieve managerial roles.</li> </ul> <p>[Any four points from the above with explanation can be scored]</p>	<p><math>\frac{1}{2} + \frac{1}{2}</math></p> <p><math>\frac{1}{2} + \frac{1}{2}</math></p> <p><math>\frac{1}{2} + \frac{1}{2}</math></p> <p><math>\frac{1}{2} + \frac{1}{2}</math></p>	4

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
24.		<ul style="list-style-type: none"> <li>- One gram of fat supplies 9.3 kcales.</li> <li>- Fats are the carriers of fat soluble vitamins.</li> <li>- Fats have protein sparing action.</li> <li>- Fats contain essential fatty acids which help to form components of cell membranes and tissues.</li> <li>- Adipose tissue where fat is stored serves as an insulation material.</li> <li>- Adipose tissue protects the vital organs.</li> <li>- In the growing stage fat promotes growth.</li> <li>- It helps proper sexual maturity.</li> <li>- Fats are slow in digestion</li> <li>- Fats retards digestion.</li> </ul>	<p style="text-align: center;">1</p> <p style="text-align: center;">1</p> <p style="text-align: center;">1</p> <p style="text-align: center;">1</p> <p style="text-align: center;">1</p> <p style="text-align: center;">1</p> <p style="text-align: center;">1</p> <p style="text-align: center;">1</p> <p style="text-align: center;">1</p> <p style="text-align: center;">1</p>	6



Qn. No.	Sub Qns	Answer Key/Value Points	Score	Total Score
		<ul style="list-style-type: none"> <li>- Fats provide flavour and palatability to food.</li> <li>- Food prepared in fat enhances satiety.</li> </ul> <p>[Any six points from the above can be scored]</p>		
25.		<ul style="list-style-type: none"> <li>- Composition</li> <li>- Structure</li> <li>- Length</li> <li>- Strength</li> <li>- moisture and absorption</li> <li>- Shrinkage</li> <li>- Resiliency</li> <li>- Effect of friction</li> <li>- Effect of heat</li> <li>- Effect of sunlight</li> <li>- Heat conductivity.</li> </ul> <p>[Any six points from the above with explanation can be scored]</p>	$\frac{1}{2} + \frac{1}{2}$ $\frac{1}{2} + \frac{1}{2}$ $\frac{1}{2} + \frac{1}{2}$ $\frac{1}{2} + \frac{1}{2}$ $\frac{1}{2} + \frac{1}{2}$ $\frac{1}{2} + \frac{1}{2}$	6

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score		
26.		<table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top; border-right: 1px solid black;"> <p style="text-align: center;"><u>Formal Education</u></p> <ul style="list-style-type: none"> <li>- The teacher starts with theory and works up to practicals.</li> <li>- Authority rests with the teacher</li> <li>- Class attendance is compulsory</li> <li>- Teaching is mainly vertical</li> <li>- It is rigid</li> <li>- The teacher has more or less a homogeneous audience.</li> </ul> </td> <td style="width: 50%; vertical-align: top;"> <p style="text-align: center;"><u>Extension Education</u></p> <ul style="list-style-type: none"> <li>- The teacher starts with practicals and may take up theory later on.</li> <li>- Authority rests with the people.</li> <li>- Participation is voluntary.</li> <li>- Teaching is mainly horizontal</li> <li>- It is flexible</li> <li>- The teacher has a large and heterogeneous audience.</li> </ul> </td> </tr> </table> <p style="margin-top: 20px;">[Any other valid points can also be scored]</p>	<p style="text-align: center;"><u>Formal Education</u></p> <ul style="list-style-type: none"> <li>- The teacher starts with theory and works up to practicals.</li> <li>- Authority rests with the teacher</li> <li>- Class attendance is compulsory</li> <li>- Teaching is mainly vertical</li> <li>- It is rigid</li> <li>- The teacher has more or less a homogeneous audience.</li> </ul>	<p style="text-align: center;"><u>Extension Education</u></p> <ul style="list-style-type: none"> <li>- The teacher starts with practicals and may take up theory later on.</li> <li>- Authority rests with the people.</li> <li>- Participation is voluntary.</li> <li>- Teaching is mainly horizontal</li> <li>- It is flexible</li> <li>- The teacher has a large and heterogeneous audience.</li> </ul>	<p style="text-align: center;"><math>\frac{1}{2} + \frac{1}{2}</math></p> <p style="text-align: center;"><math>\frac{1}{2} + \frac{1}{2}</math></p> <p style="text-align: center;"><math>\frac{1}{2} + \frac{1}{2}</math></p> <p style="text-align: center;"><math>\frac{1}{2} + \frac{1}{2}</math></p> <p style="text-align: center;"><math>\frac{1}{2} + \frac{1}{2}</math></p> <p style="text-align: center;"><math>\frac{1}{2} + \frac{1}{2}</math></p>	6
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		<p>1. JAYAPRIYA. R (450192)  HSS T Home Science  Govt. Tamil HSS, Chalai,  Trivandrum.  9446051874</p>		
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		<p>3. LITTY M GEORGE (234315)  HSS T HOME SCIENCE  SVHSS, PALEMAD  MALAPPURAM  9946916361</p>	