



**DELHI PUBLIC SCHOOL NEWTOWN**  
**SESSION 2024-2025**  
**FINAL EXAMINATION**

**CLASS: IX**  
**SUBJECT: HOME SCIENCE [SET A]**

**FULL MARKS: 100**  
**TIME: 2 HOURS**

*Answers to this Paper must be written on the paper provided separately.  
You will not be allowed to write during the first 15 minutes.  
This time is to be spent in reading the question paper.  
The time given at the head of this paper is the time allowed for writing the answers.*

*Attempt all questions from Section A and any four questions from Section B.  
The intended marks for questions or parts of questions are given in brackets [ ].  
This paper consists of 6 printed pages.*

**SECTION A**  
*(Attempt all questions)*

**Question 1**

**[20]**

**Choose the most appropriate options to the questions.**

**(Do not copy the questions, write the correct answers only)**

**(i) According to principles of Interior Decoration, large rooms should have**

- (a) any colour**
- (b) related colour**
- (c) cool, light and receding colour**
- (d) bold, dark and rich colour**

**(ii) Spot weave is used in the manufacture of \_\_\_\_\_.**

**1. Carpets**

**2. Soft towels**

**3. Kitchen cloth**

**4. Baby napkins**

**(a) 1 and 3**

**(b) 2 and 4**

**(c) 1 and 4**

**(d) only 2**

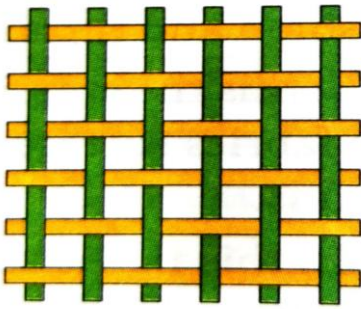
**(iii) Statement I: The most consumed metal worldwide is aluminum, followed by copper, zinc, lead and nickel.**

**Statement II: Since the industrial revolution, our consumption levels of metals have skyrocketed due to mass production of goods and the resulting low unit prices.**

**Choose the correct statement.**

- (a) Statement I is true and Statement II is false**
- (b) Statement I is false but Statement II is true**
- (c) Both Statements I and II are true**
- (d) Both Statements I and II are false**

(iv) Identify the type of weave from the picture.



(a) Plain weave

(b) Complex weave

(c) Twill weave

(d) Satin weave

(v) Select the odd one out:

Medical waste is a kind of garbage found in the following places except for one.

(a) Patient's home

(b) Pet clinics

(c) Hospitals

(d) Electronic shops

(vi) **ASSERTION [A]:** Play materials should be static and unchanging to provide a sense of stability and routine for early childhood.

**REASON [R]:** Introducing dynamic and adaptable play materials supports creativity, problem-solving and cognitive flexibility in young children.

(a) A is true but R is false.

(b) A is false but R is true.

(c) Both A and R are true and R is the correct explanation of A.

(d) Both A and R are true but R is not the correct explanation of A.

(vii) \_\_\_\_\_ helps in the normal functioning of thyroid gland.

(a) Iodine

(b) Vitamin D

(c) Calcium

(d) Phosphorous

(viii) Growth and Development are products of both \_\_\_\_\_ and \_\_\_\_\_.

(a) psychology and physiology

(b) crying and anger

(c) heredity and environment

(d) parents and school

(ix) When more than one colour is used in the colour scheme:

(a) One of the colour should be dominating

(b) All colours should be equally used

(c) Artificial light should be used

(d) Some neutral colours should be used

(x) Warps \_\_\_\_\_

1. are vertical yarns.
3. are horizontal yarns

Choose the correct answer.

- (a) 1 and 3
- (c) 1 and 4

2. are perpendicular to the selvedge.
4. are parallel to the selvedge.

- (b) 2 and 4
- (d) only 2

(xi) Identify the type of light from the picture.



- (a) Yellow light
- (c) Indirect light

- (b) Refracted light
- (d) Task light

(xii) State whether the given statement is 'true' or 'false'.

'Dirty tube lights and bulbs reflect less light and can absorb 50% of electricity.'

- (a) True
- (b) False

(xiii) Choose the relevant statement with reference to the below mentioned picture:



- (a) They boost immunity.
- (b) They increase cholesterol and fatty levels.
- (c) They increase the capacity to work hard.
- (d) They develop ability to fight diseases.

(xiv) Pick the odd pair out:

- (a) Message – The information sender intends to convey
- (b) Receiver - The person encodes the message before sending it
- (c) Feedback – The response from receiver back to the sender
- (d) Channel – The means through which the message is transmitted

(xv) **ASSERTION [A]:** A selvedge is a 'self-finished' edge of fabric.

**REASON [R]:** The term 'self-finished' means the fabric needs to be finished with bias tapes.

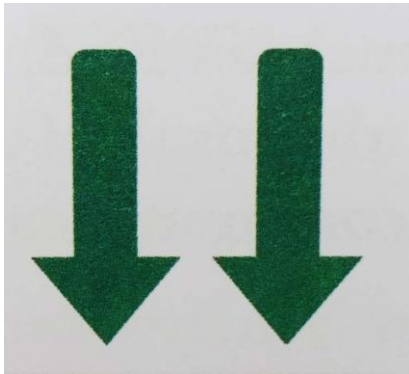
Identify the correct statement:

- (a) A is true but R is false.
- (b) A is false but R is true
- (c) Both A and R are true and R is the correct explanation of A.
- (d) Both A and R are true but R is not the correct explanation of A.

(xvi) The final phase of pre-natal development is called\_\_\_\_\_ stage.

- (a) Embryo
- (b) Foetus
- (c) Germinal
- (d) Zygote

(xvii) Identify given in the picture below the 'R' of Sustainability.



- (a) Reuse
- (b) Repair
- (c) Refuse
- (d) Reduce

(xviii) Choose the correct pair.

- |                               |                                       |
|-------------------------------|---------------------------------------|
| A. Complementary color scheme | 1. Colours opposite on a colour wheel |
| B. Analogous colour scheme    | 2. Colours adjacent on a colour wheel |
| C. Triad colour scheme        | 3. Colours in an equilateral triangle |
| D. Tetrad colour scheme       | 4. Any four colours at equidistance   |
| (a) A-2, B-4, C-1, D-3        | (b) A-1, B-2, C-3, D-4                |
| (c) A-3, B-1, C-4, D-2        | (d) A-4, B-3, C-2, D-1                |

(xix) Contour farming

- (a) is practiced in hilly and low land areas.
- (b) helps in water retention.
- (c) enables soil erosion.
- (d) uses modified plant species.

(xx) \_\_\_\_\_ wastes are not eco-friendly.

- (a) Agricultural
- (b) Aquatic
- (c) Non-biodegradable
- (d) Animal

## Question 2

Answer all the questions:

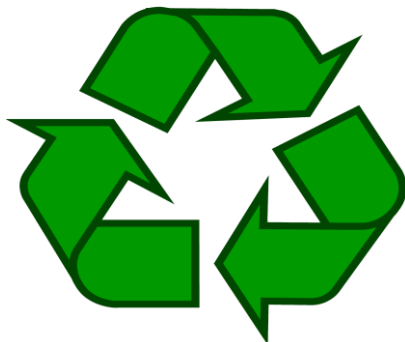
- (i) Reema believes that rainwater harvesting offers numerous advantages and intends to implement this system at her home. Give reasons for her decision. [2]
- (ii) The information acquired through communication helps people in several ways. Can you illustrate two such ways? [2]
- (iii) 'Polyester is hydrophobic in nature'. How does this property of polyester increase consumer demand? [2]
- (iv) Why should we use less fossil fuels? [2]
- (v) 'Motor development refers to the infant's ability to use muscles and bones to perform different skills.' With reference to the statement, list two such developments seen in the first four months of development. [2]
- (vi) Why are 'complete proteins' considered as having high biological value? [2]
- (vii) Why are non-biodegradable waste a threat to our environment? [2]
- (viii) 'Wool scorches easily'. Therefore, how should you iron your woolen garments? [2]
- (ix) If play is defined as any spontaneous activity that is enjoyable, then there are several reasons why children play, state two such reasons. [2]
- (x) 'Changing people's attitude and habits is the best solution to problems of water conservation'. Can you mention two such ways to conserve water? [2]

## SECTION B

*(Answer any four questions from this Section)*

## Question 3

- (i) Which principles of 5 R's would you adopt at home to conserve the environment? [5]
- (ii) Observe the picture given below and answer questions that follow:



- (a) Identify the symbol. [1]
- (b) What do you understand by organic waste? [2]
- (c) State few 'reuse ideas' you would follow to reach the goal of sustainability. [2]

(iii) 'Waste management includes the activities and actions required to manage waste from its inception to its final disposal'. With reference to the statement, enumerate importance of segregation of wastes. [5]

#### Question 4

"Communication is the intercourse by words, letters and messages". With reference to the statement, answer the following questions:

- (i) State any five key components of the nature of communication. [5]
- (ii) How does the fundamental functions of communication obtain desirable response. Discuss any five such functions. [5]
- (iii) Briefly discuss the elements of communication. [5]

#### Question 5

- (i) What do you understand by knitting? Enumerate briefly the two types of knitting. [5]
- (ii) Explain types of basic weave. [5]
- (iii) Enumerate a use and physical property each for cotton, silk, wool and polyester. [5]

#### Question 6

Write short notes on the following: (*Any five points*)

- (i) Personal hygiene. [5]
- (ii) Waste reduction ideas. [5]
- (iii) Synthetic and blended fibres. [5]

#### Question 7

- (i) Discuss the methods of conservation of cooking gas. [5]
- (ii) Explain the need for the conservation of electricity. [5]
- (iii) Conserving water is crucial for sustainable living. Methods include rainwater harvesting, fixing leaks, using water-efficient appliances, and planting drought-resistant vegetation?

In this context, answer the following questions. [5]

- (a) What is rain water harvesting?
- (b) Why is fixing leaks important?
- (c) Illustrate any two steps to conserve water.