



**DELHI PUBLIC SCHOOL NEWTOWN**  
**SESSION 2024-2025**  
**HALF YEARLY 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) Roughage plays an important role in our diet. It helps to:**

- (a) promote brain development**
- (b) supply essential fatty acid**
- (c) repair tissues in the body**
- (d) prevent constipation**

**(ii) The spice in the picture is used as \_\_\_\_\_ to spice up the dish.**



- |                             |                    |
|-----------------------------|--------------------|
| <b>(a) garam masala</b>     | <b>(b) essence</b> |
| <b>(c) thickening agent</b> | <b>(d) herbs</b>   |

**(iii) Statement I: Quiet play keeps children focused.**

**Statement II: To achieve this, child should be kept in isolation while playing.**  
**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) Language development means the ability to communicate through the use of meaningful \_\_\_\_\_.

- 1. emotions and feelings
- 3. signs and symbols

- 2. words and sentences
- 4. gesture and posture

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

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

(v) Select the odd pair

- (a) Chemistry -stain removal
- (c) Biology-Electric toaster

- (b) Sociology-Family structure
- (d) Psychology-Early childhood

(vi) ASSERTION [A]: Vitamins are micronutrients required in very small quantities in our diet.

REASON [R]: Therefore, they need to be injected in our body.

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.

(vii) The other name of Osteomalacia is \_\_\_\_\_.

- (a) Scurvy
- (c) Adult Ricket

- (b) Dry Beriberi
- (d) Pellagra

(viii) Tuberculosis can be prevented with this vaccine.

- (a) DTaP
- (c) BCG

- (b) MMR
- (d) Varicella

(ix) Some foods are considered unhealthy on the ground of their being high on \_\_\_\_\_.

- (a) Moisture content.
- (c) Saturated fats.

- (b) Yeast.
- (d) Fibres.

(x) The following destroy the ascorbic acid in foods.

- 1. exposure to heat
- 3. alkalinity

- 2. citrus fruits
- 4. sugar solution

Choose the correct answer.

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

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

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



(a) Pair game

(c) Outdoor game

(b) Party game

(d) Indoor game

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

**'Play supports holistic development.'**

(a) True

(b) False

(xiii) Identify the type of play given in the picture:



(a) Cooperative play

(c) Parallel play

(b) Emotional play

(d) Solitary play

(xiv) Pick the odd pair out:

(a) Diphtheria- Airborne droplets

(b) Chickenpox- Direct contact with skin lesions

(c) Tuberculosis- BCG vaccine

(d) Polio- Mosquito bites

(xv) **ASSERTION [A]:** Children are so immersed in their play that they lose awareness of their surroundings, time and space.

**REASON [R]:** This atmosphere gives the children the security and safety needed to experiment new things.

**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) Object permanence means

- (a) The ability of not forgetting the existence of food
- (b) The ability of not forgetting the existence of neighbors
- (c) The ability of not forgetting the existence of relatives
- (d) The ability of not forgetting the existence of toys

(xvii) Identify the cutting technique.



- (a) chopping
- (b) beating
- (c) peeling
- (d) grating

(xviii) Choose the correct pair.

- |                        |                           |
|------------------------|---------------------------|
| A. Body building foods | 1. Vitamins and minerals  |
| B. Energy giving foods | 2. Proteins               |
| C. Protective foods    | 3. Water and roughage     |
| D. Regulatory foods    | 4. Carbohydrates and fats |
| (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) Spiritual well-being helps in

- (a) Maintaining good living standards
- (b) Efficiently generating good income
- (c) Regulatory process in the body
- (d) Living stress-free life

(xx) The first phase of pre-natal development is called \_\_\_\_\_ stage.

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

## Question 2

Answer all the questions:

- (i) What do you mean by cognitive development? [2]
- (ii) How can sharing food build social well-being? [2]
- (iii) Classify Vitamins under their two groups. [2]

- (iv) Enumerate two importance of a homemaker. [2]
- (v) 'Playschools varies in approach, including Montessori, Waldorf and Reggio Emilia'. What distinguishes Montessori playschools? [2]
- (vi) If play serves as a cornerstone in childhood development, then how is imaginative play crucial for children? [2]
- (vii) Why are animal proteins supposed to be better than vegetable proteins? Give an example. [2]
- (viii) How are the 3D's associated with Niacin? Elaborate the terms. [2]
- (ix) 'An itchy rash of spots that looks like blisters can appear all over the body'. Identify the disease from the symptoms mentioned and name its vaccine. [2]
- (x) 'Children have a habit of using newly learnt word/ words repeatedly'. Which development is it referring to and at which age? [2]

### SECTION B

*(Answer any four questions from this Section)*

#### Question 3

- (i) Discuss functions of Carbohydrate. [5]
- (ii) Observe the picture given below and answer questions that follow:



- (a) Identify the nutrient present in these foods. [1]
- (b) Which fat-soluble Vitamins does it help? Name two other sources of it. [2]
- (c) Mention two functions of it. [2]
- (iii) 'Contribution of Protein to the energy value is immense'. Justify the statement by giving five points. [5]

#### Question 4

Play helps to develop various skills in children viz., Imagination, creativity, various concepts, reading and writing etc. With reference to the statement, answer the following questions:

- (i) Why do children play? [5]
- (ii) Explain 'kinds of play' and 'play materials'. [5]
- (iii) What do you understand by moral development? [5]

### **Question 5**

- (i) Classify proteins and give examples of its animal and vegetable sources. [5]**
- (ii) Mention three symptoms of deficiency of Vitamin A and its food sources. [5]**
- (iii) Mention a deficiency disease of each of Vitamin D, Vitamin E, Vitamin K, Vitamin B and Niacin. [5]**

### **Question 6**

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

- (i) Explain Motor Development from 1 to 6 months. [5]**
- (ii) Role of Play. [5]**
- (iii) Relationship of Home Science with other Sciences. [5]**

### **Question 7**

- (i) Discuss the milestones of language development from 0 to 2 years of age. [5]**
- (ii) Explain the principles of human growth and development. [5]**
- (iii) The concept of growth and development encapsulates the dynamic processes of physical maturation and psychological advancement throughout the lifespan. [5]**

**In this context, answer the following questions.**

- (a) Does development ever stop?**
- (b) Show the stages of life with its corresponding age.**
- (c) Define growth in the context of the lifespan.**