

2022

**HOME SCIENCE****( THEORY )***Full Marks : 70**Pass Marks : 21**Time : 3 hours**The figures in the margin indicate full marks for the questions**General Instructions:*

- (i) Write all the answers in the Answer Script.
- (ii) Attempt Part–A Objective questions serially.
- (iii) Attempt all parts of a question together at one place.

**( PART : A–OBJECTIVE )****SECTION - I***( Marks : 30 )***A.** Choose and write the correct answer : 1 x 6 = 6

1. The electronic configuration of Neon (Ne) is

- (a).  $1s^2 2s^2 2p^2$
- (b)  $1s^2 2s^2 2p^4$
- (c)  $1s^2 2s^2 2p^6$
- (d)  $1s^2 2s^2 2p^8$

2. It gives the actual number of various elements in a molecule of it.

- (a) Molarity
- (b) Empirical formula
- (c) Molecular formula
- (d) None of the above.

3. The gradual introduction of solid foods into a baby's diet

- (a) Breast feeding
- (b) Weaning
- (c) Artificial feeding
- (d) Supplementary feeding

4. This Vaccination gives protection against Tuberculosis.

- (a) Triple immunization
- (b) BCG Vaccination
- (c) Tetanus Toxoid
- (d) Hepatitis B

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5. They cause great damage to wood and wooden structures

- (a) White ants
- (b) Moths
- (c) Silverfish
- (d) None of the above.

6. It is used for absorbing grease

- (a) Vinegar
- (b) Linseed oil
- (c) Fuller's earth
- (d) All of the above.

**B.** Fill in the blanks :

1 x 6 = 6

- 1 Metal is made up of small particles known as \_\_\_\_\_.
- 2 \_\_\_\_\_ gives a three dimensional model of an atom.
3. \_\_\_\_\_development during adolescence is very much affected by the cultural pattern.
4. The rate of growth and development are not \_\_\_\_\_.
5. An\_\_\_\_\_consists of a heating element made of a high resistance alloy.
6. \_\_\_\_\_is related to movement in respect to line, form, pattern or colour.

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**C.** Match *Column- A* with *Column- B*

$\frac{1}{2} \times 6 = 3$

*Column- A*

*Column- B*

- |                  |   |
|------------------|---|
| 1. Atomic number | (a) Arrangements made in low shallow containers |
| 2. Mass number   | (b) Number of neutrons                          |
| 3. Puberty       | (c) Common ailment                              |
| 4. Fever         | (d) Number of protons                           |
| 5. Moribana      | (e) Adolescence                                 |
| 6. Nageire       | (f) Sum of protons and neutrons                 |
|                  | (g) Arrangements made in tall containers.       |

**D.** State whether the following statements are 'True' or 'False'

$\frac{1}{2} \times 6 = 3$

1. Atoms of an element having same atomic number but different neutrons are called Isomers.
2. Molecules of a compound are completely identical.
3. Complex skills grow out of simpler skills.
4. All boys and girls show a spurt in growth during adolescence.

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5. Peeler removes only a thin layer of skin and reduces wastage of the edible portions.
6. Money and time are examples of human resources.

**E.** Write short notes (not more than 4 to 5 sentences each):  $2 \times 6 = 12$

1. Electrovalent bond
2. Distinction between Element and Compound.
3. Clothing for infants.
4. Developmental task of Late childhood.
5. Uses of flannel cloth and scrubbing pail.
6. Types of budget.

( PART : B-DESCRIPTIVE )

Section - II

( Marks : 40 )

**F.** Answer any *two* of the following:  $2 \times 5 = 10$

1. What are hydrocarbons? Classify each by citing examples.  $1 + 4 = 5$

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2. What are saturated and unsaturated fatty acids? Explain with examples.  $1 + 4 = 5$

3. Explain the following with examples.

(a) Secondary structures of proteins  $2 \frac{1}{2}$

(b) Tertiary structures of proteins.  $2 \frac{1}{2}$

**G.** Answer any *two* of the following:  $2 \times 8 = 16$

1. Describe the principles of growth and development. 8

2. What are the developmental tasks of 'Infancy'? Explain the behavioural pattern during infancy.  $2 + 6 = 8$

3. Define the term 'Adolescence'? Describe the social development during adolescence.  $2 + 6 = 8$

**H.** Answer any *two* of the following:  $2 \times 7 = 14$

1. Define 'Management'? Explain the steps involved in the management process.  $1 + 6 = 7$

2. Classify Resources? Write the characteristics of Resources.  $2 + 5 = 7$

3. Write the meaning and characteristics of a house.  $1 + 6 = 7$

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