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**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 :  $1 \times 6 = 6$ 

- 1. Hydrogen combines with other elements by
  - (a). Losing an electron
  - (b) Gaining an electron
  - (c) Sharing an electron
  - (d) None of the above

- 2. Atoms of an element having same atomic number but different mass number
  - (a) Polymers
  - (b) Homologous
  - (c) Isomers
  - (d) Isotopes
- 3. Preparation and participation in schools (Formal education) is one of the developmental task of
  - (a) Infancy
  - (b) Early childhood
  - (c) Late childhood
  - (d) Adolescence
- 4. The average birth weight of an infant is
  - (a) 2.8 kgs
  - (b) 4.5 kgs
  - (c) 5.5 kgs
  - (d) 3.5 kgs

( 3 )

5. Which one of the following is not a household pest

- (a) Weevils
- (b) Silver fish
- (c) Cat
- (d) Rodent

6. The final step of management process is

- (a) Controlling
- (b) Organising
- (c) Evaluating
- (d) Planning

**B.** Fill in the blanks :

1 x 6 = 6

1. \_\_\_\_\_ is a well-defined circular path traced by electron revolving around the nucleus.
2. The atomic number of sodium is 11. Its electronic configuration is \_\_\_\_\_.
3. \_\_\_\_\_ is the first milk produced after delivery.
4. Principle of development from head towards toe is called \_\_\_\_\_.
5. \_\_\_\_\_ is the name given to flower arrangements made in low shallow containers.
6. \_\_\_\_\_ is a carefully prepared spending plan based on the actual family income.

( 4 )

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

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

<i>Column– A</i>	<i>Column– B</i>
1. Glucose	(a) Bran and sawdust
2. Cellulose	(b) Writing and drawing
3. Gross Motor skills	(c) Spirit and benzene
4. Fine Motor skills	(d) Monosaccharide
5. Grease absorbents	(e) Running and climbing
6. Grease solvents	(f) Polysaccharide
	(g) Soda and ammonia

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

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

1. Atomic number of an element is the number of protons present in the nucleus of its atoms.
2. Compound is a pure substance containing two or more elements combined in a fixed ratio.
3. Temper tantrum are overt expressions of anger.
4. Infancy is known as the curiosity period of life.
5. Money is a human resource.
6. Skill refers to the ability to do work.

( 5 )

- E.** Write short notes (not more than 4 to 5 sentences each):  $2 \times 6 = 12$
1. Variable valency with examples.
  2. Electronegativity
  3. Social development during adolescence
  4. Immunization
  5. Weekly cleaning of the house
  6. Dried flower arrangement

( PART : B-DESCRIPTIVE )

Section - II

( Marks : 40 )

- F.** Answer any *two* of the following:  $2 \times 5 = 10$
1. Write the classification of amino acids by citing examples. 5
  2. Describe shells, subshells and orbitals. 5
  3. Briefly describe Rutherford's model of atom. 5

( 6 )

- G.** Answer any *two* of the following:  $2 \times 8 = 16$
1. Explain the emotional development during Infancy. 8
  2. Define 'Developmental task' and enumerate the developmental tasks of late childhood.  $2 + 6 = 8$
  3. Elaborate the statement "Quest for Identity" in adolescence. 8
- H.** Answer any *two* of the following:  $2 \times 7 = 14$
1. Explain with the help of a diagram the parts of a wick stove and write about its uses and care.  $3 + 2 + 2 = 7$
  2. Define "Resource"? Explain the types of resources with examples.  $1 + 6 = 7$
  3. Explain the principles of design in flower arrangement. 7

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