

2020

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. The general formula of alkynes is

(a). C_nH_{2n-2} *(b)* C_nH_{2n+2} *(c)* C_nH_{n-2} *(d)* None of the above.

2. Electronegativity of any given element is

(a) not constant*(b)* constant*(c)* partially constant*(d)* None of the above.

3. By the onset of puberty, a child normally has

(a) 20 teeth*(b)* 28 teeth*(c)* 25 teeth*(d)* 27 teeth

4. Whooping cough is a

(a) water-borne disease*(b)* air-borne disease*(c)* contagious disease*(d)* None of the above.

(3)

5. Combination of line and mass arrangement is

- (a) Japanese origin
- (b) Chinese origin
- (c) American origin
- (d) None of the above.

6. A house is a place where one learns

- (a) Values and norms
- (b) Manners
- (c) Accepted behaviour
- (d) All of the above.

B. Fill in the blanks :

1 x 6 = 6

- 1 The distribution of electrons into orbitals of an atom is called its _____.
- 2 Lewis postulated that atoms achieve the stable octet when they are linked by _____ bonds.
3. One of the most difficult developmental tasks of adolescence relates to _____ adjustments.
4. Upto _____ weeks the baby should have sponge bath.
5. Non-human resources are_____.
6. _____is an estimate of family income from various sources and an estimate of distribution of family expenditure on various items for a specified period of time.

(4)

C. Match *Column– A* with *Column– B*

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

<i>Column– A</i>	<i>Column– B</i>
1. Derived Lipids	(a) pests
2. Carbohydrates	(b) antibodies
3. Colostrum	(c) graters, peelers
4. Bed bugs	(d) LPG
5. Butane	(e) fatty acids
6. Cutting devices	(f) starch
	(g) flower arrangement.

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

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

1. The quaternary structure of protein is formed by polymerization of several tertiary structure.
2. Electronic configuration of the neon atom is $1s^2 2s^2 2p^3$.
3. Creativity is a controlled or harnessed form of imagination.
4. Development from the centre to the periphery is called growth spurt.
5. Mop cloths are used for washing the rooms.

(5)

6. Gas cylinder should be stored at dry place well protected from direct sun rays.

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

1. Atom and molecule.
2. Tetravalency of carbon atom.
3. Breast feeding.
4. Developmental tasks of late childhood.
5. Care of the house (daily and weekly cleaning).
6. Classification of resources.

(PART : B-DESCRIPTIVE)

Section - II

(Marks : 40)

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

1. Briefly describe Bohr's model of atom. 5
2. Write about Resonance structure. 5
3. Classify carbohydrates and give examples. 5

(6)

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

1. Explain the social development during early childhood. 8
2. Define growth and development. Write four principles of development. $2 + 2 + 4 = 8$
3. Define the term 'adolescence'. Explain the physical development during adolescence. $2 + 6 = 8$

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

1. Give the planning and layout of a house. $3 + 4 = 7$
2. What do you mean by management? Write the steps in management. $1 + 6 = 7$
3. Classify pests. Write the preventive measures for each type of pests. $2 + 5 = 7$

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