



SCIENCE FOR HOME ECONOMICS HSSC-I

(Pre-Home Economics Group)

SECTION – A (Marks 10)

Time allowed: 15 Minutes

Section – A is compulsory. All parts of this section are to be answered on this page and handed over to the Centre Superintendent.

Deleting/overwriting is not allowed.

Do not use lead pencil.

حصہ اول لازمی ہے اس کے جوابات اسی طریقہ پر دئے جائیں گے کہ ہم مرکز کے حوالے کریں تاکہ جواب
گنے کی اجازت نہیں ہے لہذا پینسل کا استعمال ممنوع ہے۔

Version No.				
3	0	6	2	1

ROLL NUMBER					

0	0	0	0	0
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9

0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

Answer Sheet No. _____

بر سوال کے سامنے دیے گئے، کرکیم کے مطابق درست دائرہ کو پر کریں۔
Invigilator Sign. _____

Fill the relevant bubble against each question according to curriculum:

Candidate Sign. _____

Question	A				B				C				D			
	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
1. The mitochondrion functions in:	Lipid storage	Protein synthesis	Photosynthesis	Cellular respiration	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Number of moles in 10g of water are:	1	2	.55	1.5	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Which one of the following is a Lewis acid?	CN^-	NH_3	H_2O	H^+	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. In which stage of cell cycle DNA replication takes place?	G-1 Phase	S-Phase	G-2 Phase	M-Phase	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Absorption of digested food takes place in:	Stomach	Small intestine	Liver	Large intestine	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. Which one of the following is a milk sugar?	Lactose	Sucrose	Maltose	Fructose	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. ΔH for an endothermic reaction is:	Positive	Negative	Zero	Infinite	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8. Middle layer of eye is called:	Sclera	Choroid	Cornea	Retina	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9. The functional group $\begin{matrix} O \\ \\ -C- \end{matrix}$ is found in:	Alcohols	Ketones	Carboxylic acid	Esters	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10. What type of blood vessels surrounds the alveoli?	Artery	Arteriole	Capillary	Vein	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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SCIENCE FOR HOME ECONOMICS HSSC-I

(Pre-Home Economics Group)

106

Time allowed: 2:15 Hours

Total Marks Sections B and C: 40

Note: Answer any eight parts from Section 'B' and any two questions from Section 'C' on the separately provided answer book. Write your answers neatly and legibly.

SECTION – B (Marks 24)

Q. 2 Answer any EIGHT parts briefly.

(8 x 3 = 24)

- (i) Plastids are membrane bound organelles in plant cell.
- (a) What is chloroplast? Explain its structure.
- (b) Differentiate between chromoplast and leucoplast
- (ii) Briefly explain the following terms: (Any two)
- (i) Element (ii) boiling point (iii) Ion
- (iii) (a) Explain the role of bile in digestion.
- (b) Enlist three main roles of oral cavity
- (iv) (a) What is a covalent bond?
- (b) Write electronic configuration for the following elements (Any two)
- (i) ${}^{14}_7\text{N}$ (ii) ${}^{27}_{13}\text{Al}$ (iii) ${}^{23}_{11}\text{Na}$
- (v) Write a brief note on blood cells.
- (vi) (a) What is neutralization reaction? Give examples.
- (b) Write chemical formula of following compounds:
- (i) Sulphuric Acid (ii) Nitric Acid
- (vii) (a) What is catenation?
- (b) Write structural formula of following compounds (Any two)
- (i) n-Butane (ii) Phenol (iii) Benzene
- (viii) Write functions of the following endocrine glands. (Any two)
- (i) Thyroid gland (ii) Pancreas (iii) Adrenal gland
- (ix) Draw and explain the structure and function of human inner ear.
- (x) What are fatty acids? Give two examples.
- (xi) Explain the following terms:
- (i) Apoptosis (ii) Synapsis (iii) Karyokinesis

SECTION – C (Marks 16)

Note: Attempt any TWO questions.

(2 x 8 = 16)

- Q. 3 a. Explain all three main steps of urine formation.
- b. Describe the structure and function of Hind brain.
- Q. 4 a. Explain Lowry and Bronsted concept of acids and bases with suitable examples.
- b. Write the main postulates of Bohr's Atomic Model.
- Q. 5 a. Draw and explain the structure of Human heart.
- b. Describe the classification of carbohydrates.