	Version No.				
	9	1	0	1	6

ROLL NUMBER

حصہ اوّل لازمی ہے۔ اس کے جوابات اسی صفحہ پر دے کر ناظم مرکز کے حوالے کریں۔ کاٹ کر دوبارہ لکھنے کی اجازت نہیں ہے۔ لیڈ پنسل کا استعمال ممنوع ہے۔

Answer Sheet No. _____   Candidate's Sign. _____   Invigilator's Sign. _____

Fill the relevant bubble against each question:

S #	Question	A	B	C	D	A	B	C	D
1.	Focal length of a concave lens is:	Positive	Negative	Greater	Smaller	◯	◯	◯	◯
2.	When water changes into ice, it:	Contracts	Expands	Become dense	Remain the same	◯	◯	◯	◯
3.	The unit of work is:	Coulomb	Ampere	Newton	Joule	◯	◯	◯	◯
4.	Atomic mass is defined as:	Mass of protons and neutrons in an atom	Mass of protons in an atom	Mass of electrons and protons in an atom	Mass of electron in an atom	◯	◯	◯	◯
5.	1 litre is equal to:	100ml	$1000cm^3$	$100cm^2$	10ml	◯	◯	◯	◯
6.	What was the number of periods in the Mendeleev's periodic table?	3	10	12	21	◯	◯	◯	◯
7.	What kind of bond will be formed between atoms of oxygen?	Ionic bond	Covalent bond	Metallic bond	Polar bond	◯	◯	◯	◯
8.	The energy due to motion of its body is:	Potential energy	Kinetic energy	Elastic energy	Electric energy	◯	◯	◯	◯

APPLIED SCIENCES-I
HSSC-I

Time allowed: 2:15 Hours   **Total Marks Sections B and C :32**

Note: Answer all parts from Section "B" and all questions from Section 'C' on the provided Sheet.
Write your answers on the allotted/given spaces.

SECTION -B (Marks 20)

Q. 2	**Attempt the following questions.**			(10 x 2 =20)	
(i)	Name any two pieces of apparatus used for measuring volume of liquids.	2	**OR**	State Newton's second law motion with formula.	2
(ii)	List two main types of energy.	2	**OR**	State law of conservation of energy	2
(iii)	Explain Isomerism with examples.	2	**OR**	What are emulsifying agent?	2
(iv)	Define atomic number and atomic mass?	2	**OR**	Briefly explain efficiency.	2
(v)	Differentiate mass and weight.	2	**OR**	What is power? Write its formula.	2
(vi)	On which principle law sphygmomanometer works.	2	**OR**	State Charles's law.	2
(vii)	What is the main difference between mixture and compound?	2	**OR**	What is hydrolysis? Give at least one example.	2
(viii)	Explain isotopes?	2	**OR**	What is meant by ionization and excitation?	2
(ix)	What is reflection of light? Explain with diagram.	2	**OR**	What are the rich sources of protein?	2
(x)	What are saturated hydrocarbons?	2	**OR**	Why water is best solvent for ionizing electrolytes in solution?	2

SECTION -C (Marks 12)

Note: Attempts all questions. Marks of each question are given along with each question.   **(2 × 6 =12)**

Q. 3	What are organic compounds? Explain in detail with its types and examples.	6	**OR**	What is friction? Write advantages and disadvantages of friction.	6
Q. 4	What is the physiological importance of ions in the human body?	6	**OR**	Write differences between Acids and Bases.	6