

APPLIED SCHENCES HSSC-I SECTION - A (Marks 10)

Version Number 3 4 9 1

Time allowed: 10 Minutes

Note: Section – A is compulsory. All parts of this section are to be answered on the separately provided OMR Answer Sheet which should be completed in the first 10 minutes and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

Q. 1	Choose the correct answer A / B / C / D by filling the relevant bubble for each question on the OMR
	Answer Sheet according to the instructions given there. Each part carries one mark.

1)	What is the normal temperature of a healthy person?				
·	A.	98.2°C	В.	98.6° <i>C</i>	
	C.	$37^{\circ}F$	D.	37° C	
2)	What factor lessens the efficiency of an inclined plane?				
	A.	Viscosity	В.	Friction	
	C.	Heat	D.	Conductivity	
3)	Which formulae is correct for sugar (glucose)?				
	A.	$C_{21}H_{22}O_{12}$	В.	$C_6 H_{12} O_{16}$	
	C.	$C_6 H_{22} O_6$	D.	$C_{12}H_{22}O_{11}$	
4)	Cooling of vapours of some compounds changes them directly into solid state. This phenomenon is called				
	A.	Sublimation	₿.	Evaporation	
	C.	Condensation	D.	Boiling	
5)	The unit of Power in system international is:				
	A.	Ampere	В,	Watt	
	C.	Volt	D.	Farad	
6)	When water changes into ice, it:				
	A.	Expan ds	В.	Contracts	
	C.	Becomes dense	Ð.	Remains the same	
7)	The energy of a body produced in it due to its motion is called:				
	A.	Potential energy	B .	Chemical energy	
	C.	Kinetic energy	D.	Electrical energy	
8)	Which kind of bond is formed between two atoms of oxygen?				
	A.	Covalent Bond	₿.	Polar Bon d	
	C.	Metallic Bond	D.	Ionic Bond	
9)	1 litre is equal to:				
	A.	$1000cm^3$	3 .	100 <i>ml</i>	
	C.	$100cm^{3}$	D.	10 <i>ml</i>	
10)	Flow of electrons is called:				
	A.	Ampere	В.	Volt	
	C.	Current	D.	Energy	



APPLIED SCIENCES HSSC-I



Time allowed: 2:20 Hours

Total Marks Sections B and C: 40

NOTE: Answer any thirte

Answer any thirteen parts from Section 'B' and any two questions from Section 'C' on the separately provided answer book. Use supplementary answer sheet i.e. Sheet—B if required. Write your answers neatly and legibly.

SECTION - B (Marks 26)

- Q. 2 Answer any THIRTEEN parts. The answer to each part should not exceed 2 to 4 lines. (13 x 2=26)
 - (i) Write two uses of oxygen.
 - (ii) Define saturated and super saturated solution with one example of each.
 - (iii) Write three disadvantages of friction.
 - (iv) Write two major applications of water.
 - (v) Write three differences between mass and weight.
 - (vi) State Newton's 2nd law of motion.
 - (vii) What are Hydrates? Also give an example.
 - (viii) Define speed and velocity. Also give their formulas and units.
 - (ix) Define stable, unstable and neutral equilibrium.
 - (x) Write three benefits of pressure.
 - (xi) Define oxidation and reduction; also give one example of each.
 - (xii) Define neutralization reaction, also give its equation.
 - (xiii) Differentiate between ionic and covalent bond.
 - (xiv) Write three clinical applications of gravity.
 - (xv) State Charle's law with its mathematical expression.
 - (xvi) Write three uses of $NaHCO_3$.
 - (xvii) Define Electrolyte and Ionization.

SECTION - C (Made 14)

Note: Attempt any TWO questions. All questions carry equal marks.

 $(2 \times 7 = 14)$

- Q. 3 Describe the common properties of Acids and Bases?
- Q. 4 Define evaporation with all its factors which affect evaporation.
- Q. 5 Explain any three types of chemical reactions with examples.