Answer Sheet No. APPLIED SCIENCES HSSC-I

SECTION - A (Marks 10)

Time allowed: 10 Minute

NOTE:	Section-A is compulsory. All parts of this section are to be answered on the question paper itself.
	It 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.

(i)	Foca	l length of a concave lens is				
	A.	Positive	В.	Negative		
	C.	Greater	D.	Smaller		
(ii)	Cooling of vapours of some compounds changes them directly into solid state. This phenomenon					
	is called					
	A.	Evaporation	B.	Sublimation		
	C.	Condensation	D.	Boiling		
(iii)	What kind of bond will be formed between two atoms of oxygen?					
	A.	Ionic bond	B.	Covalent bond		
	C.	Metallic bond	D.	Polar bond		
(iv)	What was the number of periods in the Mendeleev's periodic table?					
	A.	3	B.	10		
	C.	21	D.	12		
(v)	The	unit of Power in system internation	al is			
	A.	Watt	В.	Ampere		
	C.	Volt	D.	Farad		
(vi)	1 litre is equal to					
	A.	100 ml	В.	1000 cm^3		
	C.	10 ml	D.	100 cm ³		
(vii)	The energy of a body produced in it due to its motion is called					
	A.	Potential energy	B.	Chemical energy		
	C.	Electric energy	D.	Kinetic energy		
(viii)	Atom	nic mass is defined as	·			
	A. Mass of protons and neutrons in an atom					
	B. Mass of protons in an atom					
	C. Mass of electrons and protons in an atom					
	D. Mass of neutrons in an atom					
(ix)	The unit of Work is					
	A.	Coulomb	B.	Ampere		
	C.	Joule	D.	Newton		
(x)	Whe	n water changes into ice, it	<u></u> .			
	A.	Contracts	В.	Expands		
	C.	Becomes dense	D.	Remains the same		
For E	xamine	er's use only:				
		•	Tota	il Marks: 10		
			i Ola	11 12101 1/O		

Marks Obtained:



b.

a.

b.

a.

b.

Q. 4

Q. 5

APPLIED SCIENCES HSSC-I

38

03

03

04

03

04

Time allowed: 2:20 Hours Total Marks Sections B and C: 40 Answer any thirteen parts from Section 'B' and any two questions from Section 'C' on the separately NOTE: 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 $(13 \times 2 = 26)$ Answer any THIRTEEN parts. The answer to each part should not exceed 2 to 4 lines. (i) What does the term pH mean? Mention two methods for the measurement of pH. (ii) Give the classification of Carbohydrates. (iii) Write any two differences between Mixture and Compound. (iv) Distinguish between Heat and Temperature. (v) Define Atomic number and Mass number with example. Describe briefly the factors that affect the solubility of a substance in a solution. (vi) (vii) What are Isotopes? (viii) Describe briefly the Reflection and Refraction of light. (ix) What is meant by the strength of an acid and a base? (x) Describe briefly the structure and classification of Proteins. (ix) What are the causes of Friction? How is it reduced? (xii) Define the following terms: Effort Machine Efficiency. a. b. C. (xiii) Name three apparatus used for measuring the volumes of liquids. (xiv) Why are metals good conductors of electricity? Differentiate between lonic and Covalent bonds. (XV) What do you know about the latent heat of fusion of ice? (xvi) What precautions can you take to prevent electrical accidents in hospitals? (xvii) SECTION - C (Marks 14) $(2 \times 7 = 14)$ Note: Attempt any TWO questions. All questions carry equal marks. Describe with example the neutralization and replacement reactions that take place in the Q. 3 a. 04 human body.

Explain the frequency and wavelength of a sound wave and give relationship for them.

If a force of 25 N is applied to push a patient over a distance of 5 m in its direction, what will be

What is the importance of salts in human body?

Describe Temperature scales and give their formulae.

Discuss Conductors and Insulators.

the magnitude of the work.