

8)

9)

10)

А. С.

A.

Α.

C.

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

Section - A is compulsory. All parts of this section are to be answered on the separately provided

102

Time allowed: 10 Minutes

Version Number 1 8 5 5

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)	Which of the following is equal to micro (μ)?			
		A.	10^3	В.	10^6
		С	10^{-5}	D.	10^{-3}
	2) Which of the followings is a vector quantity?				
		Α.	Velocity	В.	Mass
		C.	Energy	D.	Power
	3) Which of the following is a way of transfer of heat from Sun to Earth?				Sun to Earth?
		A.	Convection	B.	Conduction
		C.	Radiation	D.	None of these
	4)	4) Which of the following ratios is termed as Density?			
		Α.	Volume to mass	B.	Mass to volume
		C.	Mass to Gravity	D.	Volume to weight
	5) Which of the following is defined as force exerted divided by the contact area of the s				led by the contact area of the surface?
		A.	Power	B.	Weight
		C.	Pressure	D.	Energy
	6) Which of the following takes place when hydrogen combines with oxygen to f				nbines with oxygen to form water?
		A.	Synthesis (union)	В.	Analysis (decompose)
		C.	Substitution (replacement)	D.	None of these
	7) Which of the following is always in lesser quantity in a solution?				solution?
		Α.	Solute	В.	Solvent
		C.	Both solvent and solute	D.	Colloidal

Which of the following is the mass number of an atom?

Which of the following is characterised by bitter taste?

Proton and electron

Which of the following causes Ionization?

Neutron only

Microwaves

Acids

Salts

Sound waves

B.

D.

B.

B.

D.

Neutron and Proton

Proton only

X – Rays

Bases

Infrared Rays

None of these



APPLIED SCIENCES HSSC-I

801

Time allowed: 2:20 Hours

Total Marks Sections B and C: 40

NOTE:

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) What is Force?
 - (ii) Differentiate between mass and weight.
 - (iii) What is Density? Also write its unit?
 - (iv) What is Pressure?
 - (v) Convert $98.6^{\circ}F$ into Celsius scale?
 - (vi) Define Transparent, translucent and opaque objects.
 - (vii) Define frequency and wavelength and write their units.
 - (viii) What is static electricity?
 - (ix) Write the relation between potential difference, current and resistance.
 - (x) Differentiate element, mixture and compound.
 - (xi) Enlist 6 chemicals and their chemical formulae.
 - (xii) Write a short note on 'need of water for human body'.
 - (xiii) Write physical and chemical properties of Acids.
 - (xiv) Write a short note on pII scale.
 - (xv) Enlist importance of ions in the human body.
 - (xvi) What is radioactivity?
 - (xvii) Write physiologically active proteins.

SECTION - C (Marks 14)

Note: Attempt any TWO questions. All questions carry equal marks. $(2 \times 7 = 14)$

- **Q. 3** Write a detailed note on atomic structure.
- **Q. 4** What is friction? Write advantages and disadvantages of friction.
- Q. 5 Explain the characteristics of sound in detail.

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