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APPLIED SCIENCES HSSC-I

SECTION A (Morke 10)

Έ:	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.										
	Circle the correct option i.e. A / B / C / D. Each part carries one mark.										
(i) Which of the following statements is CORRECT?											
		A.	Lightning resu	ılts in re	duction of Nitrog	en					
		B.	Lightning resu	ılts in ox	didation of Nitrog	en					
		C.	Lightening res	sults in c	decomposition of	Nitroge	n				
		D.	Lightening res	sults in r	neutralization of I	Nitrogen					
	(ii) What will be the focal length of a lense when its power is 20 D?										
		A.	0.5 metre	B.	50 metre	C.	0.05 metre	D.	0.20 metre		
	(iii)	Which	of the following	is a go	od example of be	ent lever	?				
		A.	Fly wheel	B.	Inclined plane	C.	Retractor	D.	Pulley		
	(iv)	What	increase in volu	me of w	ater takes place	when co	onverted into ste	am?			
		A.	1500 times	В.	1700 times	C.	1200 times	D.	1000 times		
	(v)	Which	_		ents is TRUE ab		•				
		A.	Electromagne	tic wave	es are of short w	avelengt	th and short freq	uency			
		B.	Electromagne	tic wave	es are of long wa	velengti	n and high frequ	ency			
		C.	_		es are of short w	_					
		D.	_		es are of long wa	_		iency			
	(vi)		ch of the following statements is TRUE about iron?								
		Α.			ons from iron res						
		B.	The loss of three electrons from iron results in ferrous								
		C.			on from iron resu						
	<i>(</i> ''')	D.	The loss of two electrons from iron results in ferric ch of the following formulae refers to Vanadium?								
	(vii)		_			alum? C.	\/a	D.	Vm		
	/v:::\	A.	V s of the following	B.	Vn ae is CORRECT		Va	D.	VIII		
	(viii)		Ū			_	•	6	CH(0)		
		Α.	$C_{12}H_{22}O_{11}$	В.	$C_{11}H_{22}O_{12}$	G.	$C_6H_{22}O_6$	D.	$C_6 H_{12} O_6$		
	(ix)	Which	of the following	is COR	RECT Latin nam	ne for Til	n?				
		A.	Natrium	B.	Stannum	C.	Ferrum	D.	Argentum		
	(x)	Which	of the following	compo	unds is Hygrosco	opic?					
		A.	$NaNO_3$			B.	$Na_2SO_4.10I$	H_2O			
		C.	$MgSO_4.7H_2$	0		D.	NaOH				
			2 4 2								

For Examiner's use only:

Total Marks:

Marks Obtained:



APPLIED SCIENCES HSSC-I

48

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 Attempt any THIRTEEN parts. The answer to each part should not exceed 2 to 4 lines. (13 x 2= 26)

- (i) Write classification of Friction.
- (ii) Define **Speed**, **Velocity** and **Acceleration**. Also give their units.
- (iii) Define Stable, Unstable and Neutral equilibrium.
- (iv) Write two advantages of Pressure.
- (v) Define Gay Lussac's and Henry's law of fluid.
- (vi) Write three factors which affect evaporation.
- (vii) Define Boiling Point, Relative Humidity and Dew Point.
- (viii) Define Ampere, Quantity of electricity and Ohm's law.
- (ix) Define Hydrolysis reaction with one example.
- (x) Write two requirements of ORS.
- (xi) Write three fire extinguishers on the basis of chemicals.
- (xii) Write two uses of $NaHCO_3$.
- (xiii) Write three pieces of information provided by a chemical equation.
- (xiv) Define Mass number and Isotope with one example of each.
- (xv) Define Short sightedness and Long sightedness of vision.
- (xvi) Define Oxidation, Reduction and give one example of Redox reaction.
- (xvii) Explain the term Threshold of hearing.

SECTION - C (Marks 14)

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

- Q. 3 Write a comprehensive note on the types of radiation, their nature and characteristics.
- Q. 4 Describe the common properties of Acids and Basis.
- Q. 5 Write a detailed note on Electrostatic and Electrodynamics.

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