THE PARTY OF THE P	Roll No.						
	Sig. of Candidate						

Answer Sheet No
Sig of Invigilator

APPLIED SCIENCES HSSC-I

NOTE:	Sec It s	tion–A		s and h	o be answered on the question paper itself anded over to the Centre Superintendent cll.					
Q. 1	Circle the correct option i.e. A / B / C / D. Each part carries one mark.									
	(i)	Fishi	ng rod is an example of which type of cl	ass lever	?					
		A.	1st class lever	В.	2nd class lever					
		C.	3rd class lever	D.	Both 1st and 2nd class lever					
	(ii)	Whic	h one of the following decimal will corre	spond to	the exponent 5×10^{-4} ?					
		A.	0.05	В.	0.005					
		C.	0.0050	D.	0.0005					
	(iii)	Whic	h one of the following temperature is ca	iled therm	nodynamic scale?					
		A.	Celsius scale	В.	Fahrenheit scale					
		C.	Kelvin scale	D.	Clinical scale					
	(iv)	Whic	th one of the following law refers to $P \propto$	T at cons	tant volume?					
		A.	Boyle's law	B.	Gay-Lussac's law					
		C.	Charles's law	D.	Avagadro's law					
	(v)	Whic	th one is the condition, where the function	on of thyro	oid gland is diminished?					
		A.	Hydroemia	В.	Myxoedema					
		C.	Polycythamia	D.	Exophthaimia					
	(vi)	Whic	th one of the following is correct about the	ne formati	ion of "Ferrous ion"?					
		A.	When iron gains three electrons	В.	When iron losses two electrons					
		C.	When iron losses three electrons	Ð.	When iron gains two electrons					
	(vii)	Which one of the following ions affect the contraction and relaxation of cardiac heart muscle?								
		A.	Na^+ and Ca^+	В.	Na^+ and K^+					
		C.	Mg^+ and K^+	D.	Na^+ and Mg^+					
	(viii)	Whic	th one of the following chemist proposed	the "pH	scale"?					
		A.	British chemist	В.	Denish chemist					
		C.	Swedish chemist	D.	Greek chemist					
	(ix)	Whic	th one of the following is called "Dallin's	solution"	?					
		A.	MgOCl solution	В.	KOCl solution					
		C.	CaOCl solution	D.	NaOCl solution					
	(x)	Whic	ch one is the formula of Silica?							
		A.	SiO ₂	В.	SiO_3					
		C.	Si_2O_3	D.	Si_2O_2					
	Eor E	'vamin	er's use only:							
	-or E	.xaiiiiil	si a uac Uniy.	Tota	ıl Marks:					
				Marks Obtained						

---- 1HS 1649 ----



APPLIED SCIENCES HSSC-I

Total Marks Sections B and C: 40 Time allowed: 2:20 Hours 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) Answer any THIRTEEN parts. The answer to each part should not exceed 2 to 4 lines. $(13 \times 2 = 26)$ Q. 2 Write two factors of formation of Oedema in a patient. (i) (ii) Define Gay-Lussac's law with mathematical expression. Write the difference between conductors and insulators with example. (iii) Write three properties by which the expansion of a substance can be determined? (iv) Write two effects of heat produced in a matter. (v) Define biomechanics and equilibrium. (vi) (vii) How the polarity of a magnet is determined? (viii) Write two uses of pumps in hospital. Define molar solution with one example. (ix) Define acid and base, giving one example of each. (x) Define normal solution with one example. (xi) (xii) Write three properties of an acid. (xiii) Write two importance of salt in a body. Write the names of three methods of measuring pH of a solution. (xiv) Define buffer solution. (xv) Define electrolyte and electrolysis? (xvi)

SECTION - C (Marks 14)

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

Q. 3 Define X-Rays and how X-rays are produced? Draw neat diagram.

Q. 4 Write the difference between ionic and covalent compound.

Write two important function of calcium in a body.

Q. 5 Write all clinical applications of gravity.

(xvii)

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