## Q.P. Code :08359

[ Marks:60]

	Please check whether you have got the right question paper.					
		N.B:	1. All questions are compulsory. Choice is internal	400		
		21020	2. Figures to the right indicate full marks. All questions carry equal m	narks		
			3. From Q. 1 to Q. 4 attempt only one question out of i and ii.			
			4. From Q.5 attempt any one question out of a & b, c & d, e & f, and	g & n		
			5. Draw diagrams and flow charts wherever necessary	L'ALION TO		
Q.1	A.	Attempt any	one out of two.	02		
		i)	Define Hypertonic solution			
		ii)	Give distribution of daily water output.			
	В.		ONE out of two of the following.	04		
		i)	Explain regulation of Water and Electrolytes by rennin – angiotensin system			
		ii)	Give sources, functions and deficiency manifestations of Phosphorus			
	C.		ONE out of two of the following	06		
		i)	Give sources, absorption, transport, functions and deficiency manifestations of Iron			
		ii)	Describe excretion of Chloride and give its functions			
Q.2	A.	Attempt any	one out of two.	2		
		i)	Define Henry's Law related to pO2			
		ii)	Explain unstable hemoglobin			
	В.	Attempt any	one out of two.	4		
		i)	With enzyme defect write note on Variegate Porphyria			
		ii) 🦠	Write a note on respiratory acidosis			
	C.	Attempt any	one out of two.	6		
		SDS	Describe Hb with synthetic variation in globin chain ( with $\alpha \& \beta$ Thalassemia)			
		or hily	Explain the compensatory mechanism in maintenance of acid – base balance			
Q.3	Α.	Attempt any one out of two.				
	4	10 4 5 P	Enlist the liver function test used to detect Cholestasis			
	STR	ii)	Enlist any four proteins synthesized by liver.			
6	В.	Attempt any	one out of two.	04		
200		(1) (1)	Describe the tests for tubular functions in Renal Function Tests			
N B	3	(i) (i) (ii)	Write a note on Addison's disease			
0/2/1/2	C.	Attempt any	one out of two.	06		
200	OK 17		Describe the role of enzymes as cardiac markers.			
2 P. D.	J. 10	11)	Describe the role of T4 in hyper and hypothyroidism			
Q.4	À	. Attempt any one out of two.				
J. E.			Define Pluripotent stem cells	02		
	43		Enlist four anti cancer drugs			
	50,07	44000 A		04		
	36,25					

[Time: 2½ Hours]

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	В.	Attemp	ot any one out of two.	- 06		
			i) Write a note on tumor markers	0,57		
			ii) Explain glycation theory of aging.			
	C.	Attempt any one out of two.				
			i) Explain factors responsible for transformation of normal cell to cancer cell.	S S V		
			ii) Explain methods of isolation and propogation of stem cell	200		
Q.5		Attempt four subquestions (A) OR (B), and (C) OR (D), and (E) OR (F), and (G) OR (H)				
		a)	Explain interaction between Vitamin – E and Selenium	03		
				,		
		b)	Write a note on Wilson's disease	03		
		c)	What is buffer? Explain role of hemoglobin buffer in maintenance of blood pH	03		
		d)	Write a note on obstructive jaundice	03		
		e)	Write a note on Cushing's syndrome	03		
			OR SECTION OF SECTION			
		f)	Describe genetic defects in relation to hormonal factors.	03		
		g)	Explain acquired chromosomal defects	03		
		h)	Explain characteristics of benign tumor	03		