This qu	estio	n paper contains	s 4 prii	nted pages]	_					
				,	Roll No.					
S. No. c	of Que	estion Paper : 8	3302					,		
Unique	Paper	r Code :]	LSPT-	101 : 216/22	3/151			C		
Name o	f the I	Paper : I	ntrodu	ection to Bio	logy			-	•	
Name o	f the (Course : Ì	3.Sc. L	ife Science/I	Physical Sci	ence/B.Sc	c. (Hoi	ıs.) Bot	any/Z	oology
Semeste	er .	: I	٠							
Duration	n:3H	lours						Maxin	าum M	arks: 75
	(W	rite your Roll No	o. on th	e top immed	iately on rec	eipt of thi	is ques	tion pap	er.)	,
	٨	Attempt Five que	estions	in all, inclu	ding Q. No.	1 which	is cor	npulsor	y	,
	-	All part	s of a	question she	ould be answ	wered tog	gether.			
			Draw	diagrams w	herever nece	essary.				
1. (A)	Mat	ch the pH of th	e follo	wing		•				
	(i)	Blood	· (a)	8						
	(ii)	Gastric juices	(b)	7.4						
·.	(iii)	Pure water	(c)	13						
	(iv)	Oven cleaner	(<i>d</i>)	2						
	(v)	Sea water	(e)	7						2½
(B)	Defi	ne any five of the	he follo	owing terms	:					
	(i)	Åtherosclerosis								

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	(ii)	Anomeric carbon	
	(iii)	Unsaturated fatty acids	
	(iv)	Bioinformatics	
	(v)	Biological species concept	
	(vi)	Model organisms	5
(C) I	Fill in	the blanks:	
	(i)	A water strider is able to walk on water because of	
	(ii)	Half life period of ¹⁴ C is years.	
	(iii)	Pyrolobus fumarii can tolerate	
	(iv)	Evolution of meiosis correlates with a huge increase in the number ofearth.	on
	(v)	The entire library of genetic information that an organism inherits is call its	alled 2½
(D)	Wri	te the contribution of any five of the following:	,
	(i)	Frederick Sanger	
	(ii)	Carl Woese	
	(iii)	Roger Kornberg	
	(iv)	James Watson & Francis Crick	
	(v)	Thomas Cech	

(vi) Lawrence Henderson

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6.	(a)	Give the structural formula of any non-polar amino acid.	1
	(b)	Explain the role of water in the moderation of earth's temperature.	4
	(c)	Discuss the molecular basis of genetic information.	10
7.	(a)	What makes carbon so important for organism on earth?	4
	(b)	Briefly describe the level of biological organization.	5
	(c)	Describe the role of mass extinction and adaptive radiation in changing life of	on earth. 6