## **GUJARAT TECHNOLOGICAL UNIVERSITY** BE - SEMESTER-IV • EXAMINATION – SUMMER • 2014

$\mathbf{DE} = \mathbf{SEWESTER} = \mathbf{I} \mathbf{V} = \mathbf{EXAMINATION} = \mathbf{SOWMER} = 2014$				
Subj	ect (	Code: 140301 Date: 23-06-201	Date: 23-06-2014	
Subject Name: Life Science - II				
Time: 10:30 am - 01:00 pm Total Marks			70	
Instructions:				
		Attempt all questions.		
	2.	Make suitable assumptions wherever necessary.		
	3.	Figures to the right indicate full marks.		
Q.1	(a)	Explain the process of formation of urine.	07	
	(b)	Explain structure and function of skin.	07	
Q.2	(a)	Describe the anatomy of gastrointestinal track.	07	
	<b>(b)</b>	What is the composition of saliva?	07	
		What are its functions?		
		OR		
	<b>(b)</b>	What is set point for temperature control and how the body temperature	07	
		regulates in human body?		
Q.3	<b>(a)</b>	Name the phases of deglutition.	07	
		Explain any one of them.		
	<b>(b</b> )	Explain the movement of small intestine.	07	
• •		OR		
Q.3	<b>(a)</b>	What are the functional divisions of the cerebellum?	07	
		Describe their functions with relevant connections.		
		Explain the signs of cerebellar dysfunction.	07	
	<b>(b</b> )		07	
		Explain the properties of receptors.		
Q.4	(a)	Describe the structure and functions of vestibular apparatus.	07	
Q.4	(a) (b)	Explain the structure and function of muscle spindle.	07	
	(0)	OR	07	
Q.4	(a)	Explain the structure of male reproductive system.	07	
Q.4	(b)	What is gametogenesis in female?	07	
<b>Z</b>	()	Describe the function of placenta.	0.	
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Q.5	(a)	Explain the anatomy of female reproductive system.	07	
	<b>(b)</b>	Explain the stages of spermatogenesis and factors influencing it.	07	
	<u>(</u> -)	OR		
Q.5	(a)	What is a hormone?	07	
•		Discuss its types, chemistry and control of secretion.		
	<b>(b)</b>	Give clinical features and treatment for any five diseases caused due to	07	
		abnormalities of thyroid secretion.		

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