Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-IV • EXAMINATION - WINTER • 2014

Subject Code: 140301	Date: 31-12-2014
----------------------	------------------

Subject Name: Life Science - II

	Time: 02:30 pm - 05:00 pm	Total Marks: 70
--	---------------------------	-----------------

Instructions:

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a) (b)	Explain the structure of kidney with diagram. Describe the process of urine formation.	07 07
Q.2	(a) (b)	Explain the whole digestive tract with diagram. Short note on: Oral cavity with diagram.	07 07
	(b)	OR Explain the anatomy of liver and gall bladder with diagram.	07
Q.3	(a) (b)	Explain the structure of neuron with diagram. Describe different parts of brain.	07 07
	(0)	OR	0 /
Q.3	(a) (b)	Short note on: EEG Explain the structure of spinal cord.	07 07
Q.4	(a)	Discuss the physiology of menstruation.	07
	(b)	Define the following terms in detail: Mastication, deglutition and dialysis. OR	07
Q.4	(a)	Explain the stages of spermatogenesis.	07
	(b)	Define the following terms in detail: peristalsis movement, defaecation and synapse.	07
Q.5	(a)	Short note on: hormones secreted by pituitary gland.	07
	(b)	Explain the structure of Langerhans and list out the hormones secreted by it.	07
		OR	
Q.5	(a)	Short note on: hormones secreted by thyroid and parathyroid gland.	07
	(b)	Describe the biofeedback mechanism of hormone.	07
