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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

<b>BE - SEMESTER-IV (OLD) EXAMINATION – WINTER 2018</b>			
Subject Code:140301 Date: 10/12/2			3
Subject Name: Life Science-II			
Time: 02:30 PM TO 05:00 PMTotal Marks:		0	
Instructions:			
	2.	<ul> <li>Attempt all questions.</li> <li>Make suitable assumptions wherever necessary.</li> <li>Figures to the right indicate full marks.</li> </ul>	
Q.1	(a) (b)	Enlist Organs of Excretory System & Explain Structure of Nephron. Enlist & Explain Functions of Skin.	07 07
Q.2	(a) (b)	Explain Physiological Actions of Hormones Secreted by Pituitary gland. What is EEG? Write a Short note on Reflex Arc. <b>OR</b>	07 07
	<b>(b</b> )	Draw & Explain Gross Structure of Spinal Cord.	07
Q.3	(a) (b)	Explain the anatomical structure of Uterus with neat sketch.	07 07
Q.3	(a) (b)	<b>OR</b> Explain the anatomical structure of Small & Large intestine with neat sketch. Enlist organs of male reproductive system. Describe the structure and function of the testes in the scrotum.	07 07
Q.4	(a) (b)	<ul><li>Explain different methods of contraception.</li><li>1. Give Functions of Hormones Secreted by Langerhans Islets.</li><li>2. What is Synapse?</li></ul>	07 04 03
Q.4	(a) (b)	Explain the layers of the wall of Alimentary Canal. Explain physiology of Menstruation.	07 07
Q.5	(a) (b)	Describe physiological action of the hormone secreted by adrenal cortex gland. Draw neat Structure of Brain. Enlist Different Parts of brain & Explain brain Stem. <b>OR</b>	07 07
Q.5	(a) (b)	Explain Bio Feedback mechanism of Hormone Regulation. Explain Process of Urine Formation in detail.	07 07