

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER– IV (Old) EXAMINATION – WINTER 2019****Subject Code: 140301****Date: 14/12/2019****Subject Name: Life Science-II****Time: 10:30 AM TO 01:00 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) Draw and Explain Structure of Kidney. **07**
(b) Explain structure of Cerebrum with necessary Diagram. **07**
- Q.2** (a) Give the difference between Sympathetic and parasympathetic Nervous System. **07**
(b) Define Deglutination. Explain the stages of deglutination. **07**
- OR**
- (b) Describe Urine Formation process in detail. **07**
- Q.3** (a) Explain the anatomical structure of Small & Large intestine with neat sketch. **07**
(b) Describe physiological action of the hormone secreted by anterior pituitary gland. **07**
- OR**
- Q.3** (a) Describe the location of the liver in the abdominal cavity. List out functions of liver. **07**
(b) Differentiate endocrine gland & exocrine Gland. Explain the action of the Growth hormone **07**
- Q.4** (a) Explain structure of Skin with neat Diagram. **07**
(b) Explain Physiology of Menstruation. **07**
- OR**
- Q.4** (a) Explain location & Function of Thyroid and Parathyroid Gland. **07**
(b) Draw and explain the structure of myelinated & non-myelinated neurone. Enlist properties of neurone. **07**
- Q.5** (a) Explain Major organs of male reproductive system in detail. **07**
(b) Explain the structure of spinal cord with its diagram. **07**
- OR**
- Q.5** (a) Explain Major organs of Female reproductive system in detail. **07**
(b) What is Synapse? Explain Importance of Neurotransmitters. **07**
