

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

## GUJARAT TECHNOLOGICAL UNIVERSITY

B.E. Sem-IV Examination June- 2010

**Subject code: 140301**

**Date: 19 / 06 / 2010**

**Subject Name: Life Science-2**

**Time: 10.30 am – 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) With a neat diagram, describe the structure of kidney. **07**  
(b) Explain the structure of cerebrum and its functions. **07**
- Q.2** (a) Short Note: Functions of skin. **07**  
(b) Short Note: Menstrual Cycle **07**
- OR**
- (b) Short Note: Structure and function of uterus. **07**
- Q.3** (a) Short Note: Liver **07**  
(b) Draw the structure of myelinated neuron and explain nerve impulse. **07**
- OR**
- Q.3** (a) Short Note: Pituitary Gland **07**  
(b) Short Note: Artificial Kidney **07**
- Q.4** (a) Explain different hormones secreted from Adrenal Gland **07**  
(b) Short Note: 1) Reflex Arc. 2) EEG **07**
- OR**
- Q.4** (a) Short Note: Pancreatic Islets. **07**  
(b) Short Note: Structure and function of stomach. **07**
- Q.5** (a) Explain Autonomic Nervous System **07**  
(b) Short Note: Function of Small and Large Intestine **07**
- OR**
- Q.5** (a) Explain Anatomy Of male reproductive system. **07**  
(b) Short Note: Urine formation. **07**

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