

GUJARAT TECHNOLOGICAL UNIVERSITY**BE SEM-IV Examination-Nov/Dec-2011****Subject code: 140301****Date: 30/11/2011****Subject Name: Life Science - 2****Time: 02.30 pm -5.00 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) Compare control of body functions by the nervous system and endocrine system. **07**
(b) Describe the functions of Cerebrum & Cerebellum. **07**

- Q.2** (a) What are the functions of the autonomic nervous system? **07**
(b) Explain hormone activity. What are Circulating & Local Hormones? **07**

OR

- (b) Briefly explain the cranial nerves. **07**

- Q.3** (a) Explain the anatomical structure of Pituitary Gland. **07**
(b) Draw & explain the GI tract. **07**

OR

- Q.3** (a) Enlist & explain hormones secreted by anterior pituitary gland in short. **07**
(b) Explain the layers of the wall of Alimentary Canal. **07**

- Q.4** (a) Enlist organs of male reproductive system. Describe the structure and function of the testes in the scrotum. **07**
(b) Explain anatomy of thyroid gland. Also explain about the hormones produced by thyroid gland. **07**

OR

- Q.4** (a) Explain the anatomical structure of Small & Large intestine with neat sketch. **07**
(b) Explain the anatomical structure of Uterus with neat sketch. **07**

- Q.5** (a) Explain the processes involved in the formation of urine. **07**
(b) Describe the gastric juice & function of stomach. **07**

OR

- Q.5** (a) What is the structure & function of liver? **07**
(b) Outline the structure and function of the ureters. **07**
