

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-IV • EXAMINATION – SUMMER 2013****Subject Code: 140301****Date: 14-06-2013****Subject Name: Life Science - 2****Time: 10:30am – 01:00pm****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) Briefly describe the Gastro Intestinal Tract with neat diagram. **07**
(b) Explain the anatomical structure & functions of liver. **07**

- Q.2** (a) Briefly explain the anatomy of kidney. **07**
(b) Explain the process of urine formation. **07**

OR

- (b) Describe the anatomy of stomach with neat diagram. **07**

- Q.3** (a) Enlist and explain the major functions of nervous system. **07**
(b) Give a brief description of cranial nerves connected to eye and nose. **07**

OR

- Q.3** (a) Enlist the spinal nerve plexus and describe any two in detail. **07**
(b) Write a short note on Cerebrospinal Fluid. **07**

- Q.4** (a) Enlist and explain the hormones secreted by posterior pituitary gland. **07**
(b) Draw and explain the thyroid and parathyroid gland. **07**

OR

- Q.4** (a) Enlist and explain the hormones secreted by adrenal gland. **07**
Q.4 (b) Explain regulation of secretion of adrenaline and noradrenaline hormones. **07**

- Q.5** (a) Briefly describe the phases of uterine cycle. **07**
(b) Write a short note on Neuroglia cells. **07**

OR

- Q.5** (a) Enlist and explain the stages and factors affecting spermatogenesis. **07**
(b) Describe the structure and functions of brain. **07**
