

GUJARAT TECHNOLOGICAL UNIVERSITY**BE- IVth SEMESTER-EXAMINATION – MAY/JUNE- 2012****Subject code: 140301****Date: 29/05/2012****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) Draw and explain the gross structure of kidney. **07**
(b) Enlist & explain different functions of kidney. **07**
- Q.2** (a) Explain menstrual cycle in detail. **07**
(b) Explain structure & functions of testes. **07**
- OR**
- (b) Explain structure & functions of uterus. **07**
- Q.3** (a) Explain structure of neurons with its different properties. **07**
(b) Describe the gross structure of spinal cord. State the functions of the afferent nerve. **07**
- OR**
- Q.3** (a) Enlist & explain different types of cranial nerves. **07**
(b) Explain EEG in detail. **07**
- Q.4** (a) Enlist & explain different contraception methods for both male & female. **07**
(b) Describe the structure of nephron with its schematic. **07**
- OR**
- Q.4** (a) Explain the basic structure of the alimentary canal. **07**
(b) Explain structure & functions of small intestine. **07**
- Q.5** (a) Describe the actions of the hormones secreted by the anterior & posterior lobes of the pituitary gland. **07**
(b) Describe the actions of the thyroid gland. **07**
- OR**
- Q.5** (a) Explain the structure & functions of the skin. **07**
(b) 1) Describe renal functional tests. **04**
2) Explain Micturition. **03**
