

GUJARAT TECHNOLOGICAL UNIVERSITY
B. E. - SEMESTER – IV • EXAMINATION – WINTER 2012

Subject code: 140301**Date: 29/12/2012****Subject Name: Life Science-2****Time: 02.30 pm - 05.00 pm****Total Marks: 70****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Explain the process of urine formation. **07**
(b) Draw & explain the structure of ureter with its function. **07**

- Q.2** (a) Describe the structure of skin. **07**
(b) Explain the process of Micturition. **07**

OR

- (b) Explain the structure & function of teeth & tongue. **07**

- Q.3** (a) Draw & explain structure of urinary bladder with its function. **07**
(b) Draw & explain the structure & function of mammary glands. **07**

OR

- Q.3** (a) Enlist organs associated with the liver. Explain the function of liver. **07**
(b) Explain the structure of small intestine with its functions. **07**

- Q.4** (a) Draw & explain the structure of neurone. **07**
(b) Draw & explain the structure & functions of uterus. **07**

OR

- Q.4** (a) Draw & explain the gross structure of spinal cord. **07**
Q.4 (b) Draw & explain diagram of synapse. **07**

- Q.5** (a) Explain the main structures of external genitalia. **07**
(b) Explain Electroencephalography with its different types of waves. **07**

OR

- Q.5** (a) Describe the physiological action of the hormone secreted by posterior pituitary gland. **07**
(b) Define the followings:
(1) Explain the process of delutition. **04**
(2) Brain stem. **03**
