

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B. E. Sem - IV Examination - June- 2011

Subject code: 140301

Subject Name: Life Science-II

Date: 10/06/2011

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) What is excretory system? Describe the gross structure of the kidney. **07**
(b) Enlist and explain different functions of kidney. **07**
- Q.2** (a) Describe various layers of urethra. Explain functions of urethra. **07**
(b) Explain different functions of skin. **07**
- OR**
- (b) Explain the basic structure of the alimentary canal. **07**
- Q.3** (a) Draw and explain the structure of myelinated & non-myelinated neurone. **07**
Enlist properties of neurone.
(b) Describe the main structures of vulva. **07**
- OR**
- Q.3** (a) Explain the structure of spinal cord with its diagram. **07**
(b) Describe the location of the liver in the abdominal cavity. List out functions of liver. **07**
- Q.4** (a) Explain various layers of testes. Explain the functions of testes. **07**
(b) Explain different methods of contraception. **07**
- OR**
- Q.4** (a) Enlist different cranial nerves. Explain any two in detail. **07**
(b) Define the structure & functions of uterine tubes & ovaries. **07**
- Q.5** (a) Describe physiological action of the hormone secreted by anterior pituitary gland. **07**
(b) Define followings: **04**
1) Renal functional tests
2) Menopause **03**
- OR**
- Q.5** (a) Define menstrual cycle with its different phases. **07**
(b) Describe physiological action of the hormone secreted by adrenal cortex gland. **07**
