

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-IV • EXAMINATION – WINTER • 2014

Subject Code: 140301

Date: 31-12-2014

Subject Name: Life Science - II

Time: 02:30 pm - 05:00 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) Explain the structure of kidney with diagram. 07
(b) Describe the process of urine formation. 07
- Q.2** (a) Explain the whole digestive tract with diagram. 07
(b) Short note on: Oral cavity with diagram. 07
- OR**
- (b) Explain the anatomy of liver and gall bladder with diagram. 07
- Q.3** (a) Explain the structure of neuron with diagram. 07
(b) Describe different parts of brain. 07
- OR**
- Q.3** (a) Short note on: EEG 07
(b) Explain the structure of spinal cord. 07
- Q.4** (a) Discuss the physiology of menstruation. 07
(b) Define the following terms in detail: Mastication, deglutition and dialysis. 07
- OR**
- Q.4** (a) Explain the stages of spermatogenesis. 07
(b) Define the following terms in detail: peristalsis movement, defaecation and synapse. 07
- Q.5** (a) Short note on: hormones secreted by pituitary gland. 07
(b) Explain the structure of Langerhans and list out the hormones secreted by it. 07
- OR**
- Q.5** (a) Short note on: hormones secreted by thyroid and parathyroid gland. 07
(b) Describe the biofeedback mechanism of hormone. 07
