

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-III • EXAMINATION – SUMMER • 2014****Subject Code: 130301****Date: 28-05-2014****Subject Name: Life Sciences-1****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) Draw Structure and Function of Cell. **07**
(b) Short Note: Erythrocytes **07**

- Q.2** (a) Enlist Different types of Tissues and Explain Structure and Function of Epithelial Tissue. **07**
(b) Explain Structure and Formation of Long Bone. **07**

OR

- (b) Write structural classification of Joints and Explain Different types of Synovial Joints. **07**

- Q.3** (a) Draw Anatomy of Respiratory System and explain Mechanism of Respiration. **07**
(b) Explain Cardiac Cycle with necessary wave Forms. **07**

OR

- Q.3** (a) Explain O₂ -CO₂ Gas Exchange Mechanism in Blood. **07**
(b) Short Note: Arrhythmias **07**

- Q.4** (a) Draw and explain Structure of Human Eye. **07**
(b) Explain Conduction System of the Heart. **07**

OR

- Q.4** (a) Explain Physiology of Taste. **07**
(b) Short Note: Heart Sound. **07**

- Q.5** (a) Draw and explain structure and Functions of Inner Ear. **07**
(b) Explain Endocytosis, Exocytosis and Bulk Transport. **07**

OR

- Q.5** (a) Describe the structure of Lungs and Identify Functions of Pleura. **07**
(b) Short Note: Function of Blood. **07**
