

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-III EXAMINATION – SUMMER 2016

Subject Code:130301**Date:31/05/2016****Subject Name:Life Science-1****Time:10:30 AM to 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 structure of Cell. **07**
 (b) Explain Structure of Neuron. **07**
- Q.2** (a) Explain Transport of Ions and Molecules through cell Membrane. **07**
 (b) Explain Blood Flow through the Heart. **07**
- OR**
- (b) Draw and Explain Conduction system of Human Heart. **07**
- Q.3** (a) Enlist and Explain Functions of Blood. **07**
 (b) Draw Neat structure of Ear and Explain Internal Ear. **07**
- OR**
- Q.3** (a) Write a Short note on Blood Group. **07**
 (b) Draw neat Structure of Eye and Explain physiology of Vision. **07**
- Q.4** (a) Give Classification of Different Types of Joints. And Explain Synovial Joints. **07**
 (b) Explain Mechanism of Respiration in detail. **07**
- OR**
- Q.4** (a) Write a Short note on Structure and Formation of Bone. **07**
 (b) Define: IRV, ERV, TV, VC, TLC, FRC, and Endocytosis. **07**
- Q.5** (a) Short Note: Erythrocytes **07**
 (b) Give Classification of Tissue and Explain Epithelial Tissue. **07**
- OR**
- Q.5** (a) Short Note: Leukocytes **07**
 (b) Explain Connective Tissue with necessary diagram. **07**
