

GUJARAT TECHNOLOGICAL UNIVERSITY

B.E. Sem-III Remedial Examination March 2010

Subject code: 130301**Subject Name: Life Science-1****Date: 11 /03 / 2010****Time: 11.00 am – 01.30 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 anatomy of ear with a neat diagram. **07**
(b) With a neat diagram, explain the structure of heart & ECG Waveform. **07**
- Q.2** (a) Draw the anatomy of Respiratory System & Explain the cycle of breathing. **07**
(b) Explain Membrane & Action Potential and how are they recorded. **07**
- OR**
- (b) Explain Erythrocytes & Leucocytes. **07**
- Q.3** (a) Explain muscle tissue with a neat diagram. **07**
(b) Explain various joints & its types. **07**
- OR**
- Q.3** (a) Enlist the names of the bones in the vertebral column & the appendicular skeleton. **07**
(b) Explain the anatomy of nose & tongue. **07**
- Q.4** (a) Short Note: Cardiac Arrhythmia's. **07**
(b) Draw a neat structure of cell & explain its various organelles. **07**
- OR**
- Q.4** (a) Explain exchange & transport of gases in bloodstream. **07**
(b) Draw & explain structure of eye. **07**
- Q.5** (a) Explain Conduction System Of heart, Cardiac Cycle & Cardiac Output. **07**
(b) SN: Lungs & Physiological variables affecting breathing **07**
- OR**
- Q.5** (a) Functions Of Blood. **07**
(b) Draw & Explain epithelial tissue. **07**
