

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.E. Sem-III(Biomedical)Examination December 2009

Subject code: 130301

Subject Name: Life Science-1

Date: 23 / 12 /2009

Time: 11.00 am – 1.30 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) Draw the Structure of Cell and explain different Organelles. 07
(b) Explain Blood Components like Erythrocytes and Leucocytes. 07
- Q.2** (a) Draw the anatomy of Respiratory System And Explain Muscles Of Breathing. 07
(b) Explain Epithelial Tissue with Neat Diagram. 07
- OR**
- (b) Explain Muscle Tissue With Necessary Diagrams. 07
- Q.3** (a) Draw the structure of Ear, and explain Physiology of Hearing. 07
(b) Explain Structure and Formation of Bone. 07
- OR**
- Q.3** (a) Draw and explain Anatomy of Eye. 07
(b) Draw neat structure of Heart And explain blood flow through Heart. 07
- Q.4** (a) Explain Transport of Ions and Molecules through Cell membrane. 07
(b) Explain Anatomy of Thoracic Cage. 07
- OR**
- Q.4** (a) Explain Various Joints And its Types. 07
(b) Explain iron deficiency Anaemia and sickle cell Anaemia. 07
- Q.5** (a) 1. Define: ERV, Vital Capacity, Superior position 07
2.Explain Physiological variables that effects respiration.
(b) 1. Explain : Nose 07
2. Explain ECG wave form.
- OR**
- Q.5** (a) 1. Define: Lateral Position, Tidal Volume, Cardiac Cycle. 07
2. Short Note: Blood Group
(b) 1. Explain: Tongue 07
2. Explain Homeostasis
