

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-III • EXAMINATION – WINTER • 2014

Subject Code: 2130304**Date: 20/12/ 2014****Subject Name: Human Anatomy & Physiology****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)** Define below given terms: **07**
- | | |
|-----------------------|------------------------|
| 1. Tachycardia | 5. Blood Regurgitation |
| 2. Excitability | 6. Erythropoiesis |
| 3. Peristaltic Moment | 7. Thrombogenesis |
| 4. Residual Volume | |
- (b)** Which are the types of blood pressure? How can it be regulated? **07**
- Q.2 (a)** Draw and explain the anatomy of heart. **07**
- (b)** Explain the cell division process of mitosis. **07**
- OR**
- (b)** Write a short note on structure of cell. **07**
- Q.3 (a)** Enlist and explain the function of blood. **07**
- (b)** Explain the anatomical structure of kidney. **07**
- OR**
- Q.3 (a)** Write a short note on erythrocyte. **07**
- (b)** Describe the process of urine formation. **07**
- Q.4 (a)** Enlist and explain Various organs of digestive system with a neat diagram. **07**
- (b)** Explain the mechanism of respiration in detail. **07**
- OR**
- Q.4 (a)** Explain the structure and function of stomach. **07**
- (b)** Explain the structure of lungs. **07**
- Q.5 (a)** Describe the anatomy of eye. **07**
- (b)** Give classification of joints. **07**
- OR**
- Q.5 (a)** Explain the structure of neuron. **07**
- (b)** Write a brief note on structure and function of skin. **07**
