Seat No.: _____ Enrolment No._____

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
2. Excitability
3. Peristaltic Moment
4. Residual Volume
5. Blood Regurgitation
6. Erythropoesis
7. Thrombogenesis

(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**

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