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GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER- III (NEW)EXAMINATION - SUMMER 2015

Subject Code: 2130304 Date:29/05/2015 **Subject Name: Human Anatomy & Physiology** Time:02.30pm-05.00pm **Total Marks: 70 Instructions:** 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. 0.1 (a) Give brief notes on anatomical planes and positions with necessary schematics. 07 Write a short note on elementary tissues of the body. 07 (a) Explain functions and properties of blood cellular contents. 07 **Q.2** Explain structure and function of respiratory system organs. 07 **(b)** OR Explain mechanism of respiration with muscles involves in respiration 07 **(b) Q.3** (a) Write a short note on external features and structure of hearts. 07 Explain below given terms with necessary schematics 07 **(b)** 1) Neurons, 2) synapse and 3) neurotransmitter 0.3 (a) Correlate physiology of cardiac cycle with ECG. **07** Write a short note on central and peripheral nervous system. 07 **(b) Q.4** Explain anatomy of eye and physiology of vision. 07 (a) Explain physiological activity related to digestive system in mouth, pharynx, and **(b)** 07 esophagus. OR Explain structure of hearing system with function of all its parts. 0.4 (a) 07 **(b)** Enlist various organ of digestive system with their role in digestive process. 07 Q.5 (a) Explain physiology of urine formation using necessary schematic. 07 Write a short note on sense of smell and Taste. **(b)** 07 OR (a) Draw schematic of all types of Joints available in human body. Q.5 07 Explain anatomy and physiology of skeletal muscles and neuromuscular junction. **(b)** 07
