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Subject Code: BP101TP

GUJARAT TECHNOLOGICAL UNIVERSITY B.Pharm. - SEMESTER - I • EXAMINATION - WINTER - 2023

Date: 17/01/2024

Subject Name: Human Anatomy and Physiology I Time: 10:30 AM to 01:30 PM **Total Marks: 80 Instructions:** 1. Attempt any five questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. 0.1 Explain following diseases: (a) Cardiac arrhythmias (b) Hypertension and (a) 06 (c) Glaucoma. Write a short note on ECG. 05 **(b)** Explain physiology of muscle contraction. 05 (c) 0.2 **06** Explain the anatomy of the heart with labeled schematic diagram. (a) **(b)** What is Blood Pressure? Discuss its significance and methods of measurement. 05 Differentiate: Skeletal and cardiac muscles. (c) 05 **Q.3** Explain the process of "Cell division" (a) 06 Define anemia? Discuss the different types of anemia. 05 **(b)** Write a note on Nervous tissue. (c) 05 Discuss different types of Synovial joints with appropriate examples for each **Q.4** (a) 06 type. Write difference between parasympathetic and sympathetic system. 05 **(b)** Explain cardiac cycle. 05 (c) **Q.5** Define Homeostasis. Explain negative feedback system by giving suitable (a) 06 **(b)** Explain the process of erythropoiesis and role of erythropoietin. 05 Write a note on transport mechanisms involved across the cell membrane with (c) 05 suitable examples. Q. 6 (a) Draw a labeled diagram of eye-ball. 06 Write composition and function of Lymph. **(b)** 05 Differentiate epithelial tissues and connective tissues. Describe in detail the 05 (c) connective tissues. **Q.7** (a) Write in detail physiology of hearing. 06 Enumerate various clotting factors and explain in detail mechanism of **(b)** 05 coagulation. Explain anatomy and physiology of spleen. 05 (c)
