Seat No.: _____ Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

Pharm.D. 1st Year – • EXAMINATION – WINTER-2021

Subject Code:818801 **Date: 15/02/2022**

Subject Name: Human Anatomy and Physiology

Time: 10:30 AM to 01:30 PM **Total Marks: 70**

Instructions:

1. **Attempt any five questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1	**(a)**	Classify tissue. Write in detail about nervous tissue.	**06**
	(b)	Write functions and compositions of Skeleton.	**04**
	(c)	Draw neat and labeled diagram of human cell.	**04**
Q.2	**(a)**	Explain the term Bleeding and Clotting. Write in detail mechanism of clotting.	**06**
	(b)	Write a note on: Erythropoiesis.	**04**
	(c)	Explain the structure and functions of Spleen.	**04**
Q.3	**(a)**	Define cardiac cycle. Write in detail cardiac cycle events and ECG changes during it.	**06**
	(b)	Define: 1. Hypertension 2. Congestive Heart Failure 3. Hypoxia 4. Diarrhea	**04**
	(c)	Draw neat and labeled diagram of internal structure of heart.	**04**
Q.4	**(a)**	What is respiration? Explain in detail internal respiration.	**06**
	(b)	Explain in brief respiration and cardiac physiology during exercise.	**04**
	(c)	Explain in brief Resuscitation.	**04**
Q.5	**(a)**	Enlist the components of digestive system. Write structure and functions of liver.	**06**
	(b)	Write a note on Salivary glands.	**04**
	(c)	Explain mechanism of gastric acid secretion. Enlist functions of gastric juice.	**04**
Q. 6	**(a)**	Enlist different parts of the brain. Write a note on cerebrum.	**06**
	(b)	Write physiology of muscle contraction.	**04**
	(c)	State the difference between sympathetic and parasympathetic nervous system.	**04**
Q.7	**(a)**	Write the physiology of Urine formation.	**06**
	(b)	Enlist different endocrine glands and their hormones. Explain in brief endocrine secretion of pancreas.	**04**
	(c)	Draw neat and labeled diagram of male reproductive system.	**04**

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