Enrollment No: _____ Exam Seat No:_____

C.U.SHAH UNIVERSITY

Summer Examination-2019

Subject Name: Human Anatomy and Physiology I - Theory
Subject Code: BP101T **Branch: B.Pharm**
Semester: 1 **Date: 12/03/2019** **Time: 02:30 To 05:30** **Marks: 75**

Instructions:
(1) Use of Programmable calculator & any other electronic instrument is prohibited.
(2) Instructions written on main answer book are strictly to be obeyed.
(3) Draw neat diagrams and figures (if necessary) at right places.
(4) Assume suitable data if needed.

Q-1		**Attempt the following questions:**	**(20)**
	a)	Explain the term anemia and leukemia	**2**
	b)	Define: paracrine & synaptic signaling	**2**
	c)	Explain homeostasis	**2**
	d)	Define osteoporosis	**2**
	e)	Enumerate functions of blood	**2**
	f)	Classify different types of joints	**2**
	g)	What is pre-synaptic & Post-synaptic neuron?	**2**
	h)	What are connective tissues explain with examples?	**2**
	i)	What are components of cell?	**2**
	j)	What is composition of blood?	**2**

Attempt the following questions:

Q-2		**Attempt any two of following :**	**(20)**
	A	Draw neat labelled diagram of human heart. Explain ECG in detail	**10**
	B	Classify tissues. Explain epithelial tissues in detail	**10**
	C	Discuss cell cycle, with special reference to meiosis and mitosis	**10**
Q-3		**Attempt any Seven of following :**	**(35)**
	A	Explain positive and negative feedback system with examples	**5**
	B	Write note on neuromuscular junction	**5**
	C	Draw neat labelled diagram of eye with nomenclature	**5**
	D	Explain life cycle of RBC in detail	**5**
	E	Discuss different transport mechanism across cell membrane	**5**
	F	Explain ABO blood group system	**5**
	G	Draw neat labelled diagram of cell. Explain cell membrane in brief	**5**
	H	Differentiate sympathetic & parasympathetic nervous system	**5**
	I	Explain mechanism of blood coagulation in detail	**5**