Sanjay Ghodawat University, Kolhapur Established as State Private University under Govt. of Maharashtra. Act No XL, 2017		2020-20 EXM/P/09/00
Year and Program: FY D. Pharm 2020-21	School of Pharmaceutical Sciences	Department: Pharmacy
Course Code: DP105T	Course Title: Human Anatomy and Physiology	Annual Pattern (Part-I)
Date: Day : Time:	Examination: Annual pattern	Max Marks: 50

Instructions 1) All the questions are compulsory.
2) Draw the diagrams wherever necessary.
3) Figures to the right indicates full marks

			Marks	Bloom's Level	CO
Q.1		**Short answer question.** **Answer any Six out of Eight (2 x 6)**	**12**		
	a	Enlist the types of blood group	02	01	CO2
	b	Define cell and tissue	02	01	CO1
	c	Define anatomy and physiology	02	01	CO1
	d	Draw well labeled diagram of human cell	02	01	CO2
	e	Enlist normal value of systolic and diastolic blood pressure	02	01	CO1
	f	Define anemia and hypertension	02	01	CO1
	g	Define plasma and serum	02	01	CO1
	h	Enlist the components of blood	02	01	CO2
Q.2		**Explain with suitable diagram, flow chart and Reaction.** **Answer any Three out of Five (3x3)**	**09**		
	a	Classify joints and enlist their function.	03	01	CO3
	b	Draw well labeled diagram of heart.	03	01	CO3
	c	Enlist the components of respiratory system and give their functions	03	01	CO2
	d	Describe the mechanism of blood coagulation	03	02	CO2
	e	Draw well labeled diagram of kidney	03	01	CO3
Q3		**Illustrate following with suitable example.** **Answer any Three out of Five (3x3)**	**09**		
	a	Illustrate the physiology of formation of urine.	03	04	CO2
	b	Illustrate the physiology of skeletal muscle contraction	03	04	CO2
	c	Illustrate the physiology of digestion	03	04	CO2
	d	Illustrate the physiology of respiration	03	04	CO2
	e	Illustrate the physiology of pain	03	04	CO2
Q.4		**Write a short note on following** **Answer any Two out of Three (3x2)**	**06**		
	a	Write note on thyroid gland	03	02	CO2
	b	Write note on pancreas	03	02	CO2
	c	Write note on menstruation cycle	03	02	CO2
Q.5		**Discuss the following** **Answer any Two out of Three (3x2)**	**06**		
	a	Justify why 'Mitochondria is called power house of cell'	03	05	CO2
	b	Justify why 'Pancreas is called as exo-endocrine gland.'	03	05	CO2
	c	Justify Why pituitary gland is known as master gland.	03	05	CO2
Q6.		**Long answer questions**			

		Answer any Two out of Four (4x2)	**08**		
	a	Describe the structure and function of Skin	04	03	CO2
	b	Describe the parts of brain and its function	04	03	CO2
	c	Describe in detail male reproductive system	04	03	CO2
	d	Describe the components and functions of ANS	04	03	CO2