	Sanjay Ghodawat University, Kolhapur EstablishedasStatePrivateUniversityunderGovt.ofMaharashtra.ActNoXL,2017	2020-20 EXM/P/09/00

Year andProgram: FY D Pharm	**School ofPharmaceutical Sciences**	**Department:** Pharmacy
CourseCode: DP105T	**CourseTitle:**Human Anatomy and Physiology	**Part I**
Date: 13-08-2021 **Day:Friday** **Time: 10.30AM To 12.30 PM**	**Examination:**Annual	**MaxMarks:**50

Instructions 1.All questions are compulsory.
2.Draw a neat labeled diagram if necessary.

			Marks	Bloom's Level	CO
Q.1		**Shortanswerquestion.** **AnsweranySix outofEight (2 x 6)**	**12**		
	a	Define- Anatomy and Physiology.	02	L1	CO1
	b	Classify epithelial tissues.	02	L2	CO3
	c	Define joint. Name the bones forming the elbow joint.	02	L1	CO1
	d	Report the normal values of i) Pulse ii)Cardiac output iii) Stroke volume iv) Heart rate.	02	L2	CO1
	e	Name different organs of respiratory system	02	L1	CO1
	f	Draw a neat labeled diagram of L. S. of kidney.	02	L3	CO2
	g	Describe the functions of hypothalamus.	02	L1	CO2
	h	Draw a well labeled diagram showing a simple reflex arc.	02	L3	CO2
Q.2		**Explain with suitable diagram, flow chart and Reaction.** **Answer any Three out of Five (3x3)**	**09**		
	a	Explain functions of uterus, fallopian tubes and ovaries.	03	L2	CO2
	b	Define endocrine gland. Enlist endocrine glands of human body.	03	L1	CO1
	c	Discuss composition and functions of gastric juice.	03	L2	CO2
	d	State difference between smooth muscle and skeletal muscle.	03	L4	CO3
	e	Draw a well labeled diagram of internal ear.	03	L3	CO3
Q3		**Illustrate following with suitable example.** **Answer any Three out of Five (3x3)**	**09**		
	a	Classify the different cranial nerves.	03	L2	CO3
	b	Explain the process of urine formation.	03	L2	CO3
	c	Illustrate mechanism of respiration.	03	L3	CO2
	d	Discuss the effect of sympathetic and parasympathetic nerve stimulation on i)Heart ii)Blood vessels iii) Pupil	03	L2	CO3
	e	Define i)Oedema ii) Glaucoma iii) Congestive cardiac failure.	03	L1	CO1

Q.4		**Write a short note on following** **Answer any Two out of Three (3x2)**	**06**		
	a	Discuss the structure and functions of mitochondria.	03	L2	CO2
	b	Mention the bones forming i)Cranium ii) Thoracic cage	03	L2	CO3
	c	What are lymph nodes? Give their functions.	03	L1	CO1
Q.5		**Discuss the following** **Answer any Two out of Three (3x2)**	**06**		
	a	Explain female reproductive system.	03	L2	CO3
	b	Pancreas is called as exo-endocrine gland. State reason.	03	L3	CO2
	c	List six functions of skin.	03	L2	CO2
Q6.		**Long answer questions** **Answer any Two out of Four (4x2)**	**08**		
	a	Explain conducting system in heart.	04	L2	CO3
	b	Discuss the composition of blood and explain how blood clot is formed.	04	L2	CO2
	c	Define the term i) Erythropoiesis ii) Arthritis iii) Menopause iv) Vital capacity.	04	L1	CO1
	d	Describe in detail the phases of Menstrual cycle.	04	L2	CO3