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## SARDAR PATEL UNIVERSITY EXAMINATION

Day- mm day

TIME: 2:00- 4:00 p.M.

DATE - 4/01/2≵ T Course: US03CGEN22

SUBJECT: ANIMAL PHYSIOLOGY

CLASS- S.Y.B.Sc

**SEMESTER-III** 

MAX. MARKS- 70

Q1- 9	Select the correct from the following Multiple Choice: [1 X 10] [10]					
(i)	carries deoxygenated blood to the lungs from the right ventricle.					
` '	a) Pulmonary artery b)Pulmonary vein					
	c) Aorta d) None of the above					
(ii) <sup>-1</sup>	is a blood disorder where the haemoglobin is defective					
` '	a) Heterochromia b) Alopecia c) Haemolysis d) Sickle cell anaemia					
(iii)	The impulses that stimulate the heartbeat originate in the					
	a) sinoatrial node b) systole c) atrioventricular node d) diastole					
(iv)	Which of the following is a chronic respiratory disorder caused by smoking?					
•	a) Emphysema b) Asthma c) Respiratory alkalosis d) Respiratory acidosis					
(v)	Which of the following hormones are responsible for the "fight-or-flight" response?					
	a) Epinephrine and norepinephrine b) Insulin and glucagon.					
	c) Estrogen and progesterone d Thyroxin and melatonin.					
(vi)	Which of the following organs only receives oxygenated blood?					
	a) Lungs b) Gills c) Liver d) Spleen					
(vii)	Which of the following has both endocrine and exocrine functions?					
(viii)	a) anterior pituitary b) thyroid c) adrenal medulla d) pancreas  The clusters of cells in the pancreas that produce hormones are the:					
,	a) Nodules.  b) Islets of Langerhans.					
	c) Pancreatic medulla.  d) Pancreatic cortex.					
(ix)	Dessert lizards are havingtype of skin					
٠,	a) Hydroscopic b) Hydrophobic c) Hygroscopic d) None of the above					
(x)	Which of the following parasites is responsible for the cause of African sleeping					
` '	sickness					
	a) Leishmania b) Trypanosoma c) Entamoeba d) Trichomonas					
	ill in the blanks and True –False (1X8) [8]					
(i)	Most of the carbon dioxide produced in the tissues is transported to the lungs as					
(ii)	Cushing Syndrome is due to the hyper secretion of					
(iii)	is responsible for increasing red blood cell precursors.					
(iv)	The vector for sleeping sickness is					
(v)	During exercise, the heart rate increases and the blood pressure decreases [TRUE/FALSE]					
(vi)	People get infected with Leishmania parasites through the bite of an infected female sandfly.  [TRUE/EALSE]					

The posterior pituitary stores and releases: Oxytocin and antidiuretic hormone (ADH). (vii) [TRUE/FALSE] (viii) Correct order of structures in the respiratory passageways → pharynx, larynx, trachea, bronchi, bronchioles [TRUE/FALSE] Q3- Short Answer Questions ( Attempt any 10 out of 12) (10X2) [20] Name all the heart valves with their locations. (ii) Name all the clotting factors responsible for blood clotting. (iii) Give the functions of the peripheral vascular system? (iv) What is COPD? Give detail. What is Electrocardiogram? Give its significance. (v)Write 4 differences between steroid hormones and peptide hormones (vi) Explain the effect of hyper secretion and hypo secretion of thyroid gland (vii) What are the functions of the mucus and cilia on the wails of the trachea? (viii) (ix) Give the symptoms and cause of Addition disease. (x) Define camouflage with an example. (xi) Define Mimicry with examples. (xii) How is Balantidium coli transmitted? Q4- Long Answer Questions (attempt any 4 out of 8) (4X8) [32] Describe the three general components of the circulatory system in humans. (i) (ii) Write a detailed note on coronary artery disease. (iii) Describe the anatomy of the lung along with figure. Write a note on disease associated with respiratory system. (iv) (v) Explain the locations, hormonal secretions and functions of anterior and posterior pituitary gland. (vi) What are hormones? Discuss its types, mechanism of action and significance. (vii) Discuss with example about fresh water and burrowing adaptation. (viii) Explain the life cycle with all the stages for Enterobius vermicularis