

BBG-003-1016022]

BBG-003-1016022

Seat No. _____

[Contd...

B. Sc. (Sem. VI) Examination

July - 2021

Z-602 : Cardiovascular System, Respiration and Muscular System, Endocrinology and Reproduction and Histology

(New Course)

Faculty Code: 003

Subject Code: 1016022

Time : $2\frac{1}{2}$ Hours] [Total Marks: 70 Instructions: (1) Draw neat and labeled diagram wherever necessary. (2) Numbers to the right side indicate full marks of the questions. (A) Answer the following questions: 1 4 (1) What is serum? (2) Write the size and weight of the heart (3) What are autorhythmic fibers? (4) What is relaxation period in cardiac cycle? (B) Answer in Brief: 2 (1) Pericardium (C) Answer in Detail: 3 (1) Conduction system of the heart (D) Write a note on: 5 The Extrinsic Pathway and The Intrinsic Pathway 2 (A) Answer the following questions: 4 What is thrombosis? (1)What is mediastinum? (2)(3) Describe conduction system. (4) Which repolarization causes ventricular diastole?

1

BB	G-003	-1016022] 2 [Cont	d
		(2) Name the hormones synthesize and secrete by thyroid gland.	
		of endocrine gland?	
		(1) Give Reason - "Pituitary gland called the "masters"	
5	(A)	Answer the following questions:	4
		(1) The Neuromuscular Junction	
	(D)	Write a note on:	5
		(1) Haemoglobin as a respiratory pigment	
	(C)	Answer in Detail:	3
	. ,	(1) External respiration	
	(B)		2
		(4) In which animal group Chlorocruorin and Haemerythrin found?	
		Affinity for oxygen other than PO ₂ . (4) In which animal group Chlorocruorin and	
		(3) Note down the factors affecting Hemoglobin's	
		(2) State the Henry's law	
		contract are neurons	
		(1) The neurons that stimulate skeletal muscle to	
4	(A)	Answer the following questions:	4
		(1) Sarson Dionias Transport	
	(D)	(1) Carbon Dioxide Transport	ี่
	(D)	(1) The Contraction Cycle Write a note on:	5
	(C)		3
	(0)	(1) Internal respiration	ด
	(B)	Answer in Brief:	2
	(T) \	(4) In which animal group Haemocyanin found?	~
		hemoglobin in RBC?	
		(3) How many percentage of blood ${\rm O}_2$ is bound to	
		(2) State the Dalton's law	
		protect skeletal muscle.	
•	()	(1) Name the three layers of connective tissue that	_
3	(A)	Answer the following questions:	4
		(1) Electrocardiogram	
	(D)		5
	(T)	(1) The Common Pathway of Blood Clotting	
	(C)	Answer in Detail:	3
		(1) Describe Systolic and diastolic blood pressure.	
	(B)	Answer in Brief:	2

		(3) The endocrine part of Pancreas is called	
		(4) Explain "Proestrus" period of estrous cycle.	
	(B)	Answer in Brief:	2
		(1) Hormones of the posterior lobe of the pituitary	
		gland	
	(C)	Answer in Detail:	3
		(1) Lipid soluble Hormones and Water Soluble	
		Hormones	
	(D)	Write a note on:	5
		(1) Menstrual Cycle	
6	(A)	Answer the following questions:	4
		(1) Give location of thyroid gland.	
		(2) Adrenal Medulla secrets And	
		Hormones.	
		(3) Define "Seasonally Monoestrous".	
		(4) Define "Polyestrous"	
	(B)	Answer in Brief:	2
		(1) Explain "Estrus" period of estrous cycle.	
	(C)	Answer in Detail:	3
	(D)	(1) Hormones of anterior pituitary gland	_
	(D)	Write a note on:	5
		(1) Parathyroid Gland	
7	(A)	Answer the following questions:	4
		(1) Define "Immunity".	
		(2) Describe "Skin" as innate immunity.	
		(3) Give the definition of "Antigen".	
		(4) T cells formed in the and migrate to the	
	(D)	to mature.	2
	(B)	Answer in Brief:	2
	(C)	(1) Write the function of Ig G and Ig A	0
	(C)		3
	(D)	(1) B Cells	E
	(D)	Write a note on: (1) Photo recentor	5
		(1) Photo receptor	

8	(A)	Answer the following questions:	4
		(1) What is susceptibility?	
		(2) Name the different Cellular Barriers present inside	
		the body.	
		(3) What is Phagocytes?	
		(4) Define "Immunoglobulin" (Ig)	
	(B)	Answer in Brief:	2
		(1) Cytokine Barriers	
	(C)	Answer in Detail:	3
		(1) Physiological Barriers	
	(D)	Write a note on:	5
		(1) Phono receptor	
9	(A)	Answer the following questions:	4
		(1) Give Definition of Histology.	
		(2) Write the Function of Sertoli cells.	
		(3) Write the full form of DPX.	
		(4) What is ovulation?	
	(B)	Answer in Brief:	2
		(1) single staining	
	(C)	Answer in Detail:	3
		(1) histology of Ovary	
	(D)	Write a note on:	5
		(1) histology of adrenal gland	
10	(A)	Answer the following questions:	4
		(1) Note down three simple fixatives.	
		(2) Write the diameter of testicle?	
		(3) Define histological stain.	
		(4) Function of Glucocorticoid.	
	(B)	Answer in Brief:	2
	•	(1) fixation	
	(C)	Answer in Detail:	3
	•	(1) Write note on any three stain	
	(D)	Write a note on:	5
	•	(1) Double staining technique	