

RY-003-1016022

Seat No.

B. Sc. (Sem. VI) (CBCS) Examination

March - 2019

Zoology: Paper - 602

(Cardiovascular System, Respiration & Muscular Sus. Endocrine, Repro., Imm., Sense Org. & Histo.) (New Course)

Faculty Code: 003

Subject Code: 1016022

Time : $2\frac{1}{2}$ Hours] [Total Marks : 70

Instructions: (1) Illustrate your answers with neat and labelled diagrams.

- (2) Figures to the right side indicate full marks of questions.
- 1 (A) Give the answer of following questions:
 - (1) Define Cardiac cycle.
 - (2) Which device is used to measure blood pressure?
 - (3) Give the function of SA node.
 - (4) From which right atrium receives blood?
 - (B) Write any one out of two:
 - (1) Explain Heart sounds.
 - (2) Write a short note on ECG.
 - (C) Write any one out of two:
 - (1) Describe regulation of heart rate.
 - (2) Explain circulation of blood.

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	(D)	Write any one out of two:		5
		(1)	Explain physiology of blood clotting.	
		(2)	Describe structure of heart.	
2	(A)	Give the answer of following questions:		
		(1)	Define Respiration.	
		(2)	By which three form of CO_2 transported in the blood?	
		(3)	Give the function of muscles.	
		(4)	Write the name of muscle structural proteins.	
	(B)	Write any one out of two:		2
		(1)	Explain T tubule.	
		(2)	Describe Chloride shift.	
	(C)	Write any one out of two:		3
		(1)	Write a short note on respiratory pigments.	
		(2)	Describe structure of sarcomere.	
	(D)	Write any one out of two:		5
		(1)	Explain Exchange of gases.	
		(2)	Explain Muscle contraction.	
3	(A)	Giv	e the answer of following questions :	4
		(1)	Define Hormone.	
		(2)	Write the function of parathyroid hormone.	
		(3)	Give the name of hormones produced by thymus	
		(4)	Define Oestrous cycle.	

	(B)	Wri	te any one out of two:		
		(1)	Write a short note on chemical classes of hormone.		
		(2)	Describe Pineal gland.		
	(C)	Wri	te any one out of two:	3	
		(1)	Explain Hormones of pancrease.		
		(2)	Describe Thyroid gland.		
	(D)	Wri	Write any one out of two:		
		(1)	Explain in detail pituitary gland.		
		(2)	Explain Menstrual cycle.		
4	(A)	(A) Give the answer of following questions:		4	
		(1)	Define Antigen.		
		(2)	Write the name of different types of antimicrobial substances.		
		(3)	What is adaptive immunity?		
		(4)	Define Phagocytes.		
	(B)	Write any one out of two:		2	
		(1)	Write a short note on Natural killer cells.		
		(2)	Explain Gustatory pathway.		
	(C)	Write any one out of two:		3	
		(1)	Explain Physiology of Vision.		
		(2)	Describe Inflammation.		
	(D)	D) Write any one out of two:			
		(1)	Give a detail account on structure, function and classes of antibody.		
		(2)	Describe Phonoreceptor.		
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5	(A)	Give	the answer of following questions:	
		(1)	What is histology?	
		(2)	Define Microtomy.	
		(3)	Give the name of nuclear stain.	
		(4)	Write the function of leydig cells.	
	(B)	Writ	te any one out of two:	2
		(1)	Describe Fixatives.	
		(2)	Write a note on histological structure of testis.	
	(C)	Writ	te any one out of two:	3
		(1)	Describe histology of adrenal gland.	
		(2)	Explain single and double staining methods.	
	(D)	Writ	te any one out of two:	5
		(1)	Describe histology of ovary.	
		(2)	Explain detail process of histology.	