

HAE-003-001642 Seat No. \_\_\_\_\_

## Third Year B. Sc. (Sem. VI) (CBCS) Examination

June / July - 2017

Zoology : Z - 602

(Physiology, Histology & Micro Techniques) (New Course)

Faculty Code: 003

		Subject Code: 001642
Tin	ne : 2	$\frac{1}{2}$ Hours] [Total Marks : 70
Ins	truct	<ul><li>ions: (1) Illustrate your answer with neat and labelled diagram.</li><li>(2) Figures to the right side indicate full marks of questions.</li></ul>
1	Give	e the answer of following questions:
	(1)	is the term indication a slow heart rate or
	4-1	pules rate. (under 50 / minute)
	(2)	Write any three causes of hypotension.
	(3)	Complete the sequence.
		Active heparin + + → Inactive heparin.
	(4)	What is respiratory quotient?
	(5)	Accumulation of which acid in muscles cause fatigue?
	(6)	Which endocrine gland is associated with salt, sugar and sex ?
	(7)	In menstrual cycle which days are belongs to proliferative phase.
	(8)	Give examples of monoestrus, diestrus and poly estrus animal.
	(9)	Which antibody found in colostrum and mother's milk?
	(10)	Give the only name of papillae found upper surface of tongue.
	(11)	In retina cells are specialized for reception in dim light.
	(12)	Which instrument is used for sectioning wex embeded tissue in histology?

	<ul><li>(14)</li><li>(15)</li><li>(16)</li></ul>	Give only name of ear ossicles of middle ear.  Give the composition of Bouin's fluide (aques).  Which stain is generaly used for staining nucleus in double staining techniques?  Give the name of surrounding layers those found in structure of testis.  Which hormones produced by chromaffin cells of adrinal gland?	
	(18)	What is time duration of ventriculas systole?	
	(19)	Give the full form of DPX.	
	(20)	Give two examples of hormones those are antagonistic in nature.	
2	(a)	Write any three out of six:	
	` /	(1) Myxoedema and cretinism thyroid disorder.	
		(2) Copper contain respiratory pigment.	
		(3) Chemical regulation of heart beat.	
		(4) Proestrus and Anestrus phase.	
		(5) Haemotoxylene.	
		(6) Negative feed back control of hormones.	
	(b)	Write any three out of six:	
		(1) Histological structure of testis.	
		(2) Cardiac cycle.	
		(3) Hormones of pancreas and its disorder.	
		(4) Extrinsic pathway of blood clotting.	
		(5) Double staining technique.	
		(6) Blood pressure and hypertension.	
	(c)	Write any two out of five:	
		(1) Explain muscle contraction theory and cori cycle.	
		(2) Structure of heart and origin of heart beat.	
		(3) Exchange of $O_2$ and $CO_2$ .	
		(4) Sexual cycle in human female.	
		(5) Describe in detail photoreceptor.	
3	(a)	Write any three out of six:	
		(1) Allergy	
		(2) Eosin	
		(3) Male sex hormones	
		(4) Haemoglobin as respiratory pigment	
		(5) Function of fixative and write about any one fixative.	
	_	(6) Heat period in estrus cycle.	
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- (b) Write any three out of six:
  - (1) Structure of adrenal gland.
  - (2) Best and Taylor's theory.
  - (3) Electrocardiogram.
  - (4) Role of thyroid hormone in physiology.
  - (5) Gustato receptor
  - (6) Inborn immunity.
- (c) Write any two out of five:

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- (1) Hormones and disorder of band master gland or master gland.
- (2) Describe phonoreceptor.
- (3) Describe in detail process of fixation, embeding and sectioning of animal tissue.
- (4) Structure of ovary and its hormones in detail.
- (5) What are immunoglobins? Give structure, types and function of its.