2017

(5th Semester)

**ZOOLOGY** 

Paper: ZL-VI

(Animal Physiology)

Full Marks: 55

Time:  $2\frac{1}{2}$  hours

( PART : B—DESCRIPTIVE )

( *Marks* : 35 )

The figures in the margin indicate full marks for the questions

1. Describe the process of complete digestion of fats with suitable schematic representation. 7

Or

What are the different types of respiration? Describe the mechanism of lung respiration.

2+5=7

7

2. Describe the sequence of events in cardiac cycle.

Or

Write an account of ABO blood grouping system. Add a note on Rh factor. 5+2=7

**3.** What is micturition? Write an account of nervous control of micturition. 7

Or

Define osmoregulation. Write the mechanism of osmoregulation in marine animals. 1+6=7

**4.** What are the different types of muscles? Write an account of the ultrastructure of muscles. 1+6=7

Or

Explain the mechanism of muscle contraction.

5. What do you mean by resting and action potentials? Write notes on propagation of nerve impulse in myelinated nerve fibre. 2+5=7

Or

What are neurotransmitters? Give a detailed mechanism of synaptic transmission. 1+6=7

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Subject Code: ZOO/V/	06	Booklet No. <b>A</b>				
To be filled in by the		Date Stamp				
DEGREE 5th Semester (Arts / Science / Communication) Exam. Subject	merce / , <b>2017</b>					
Paper		To be filled in by the Candidate				
INSTRUCTIONS TO CAN	DIDATES	DEGREE 5th Semester				
<ol> <li>The Booklet No. of this so quoted in the answer sor descriptive type question versa.</li> </ol>	ipt meant for	(Arts / Science / Commerce / ) Exam., <b>2017</b>				
2. This paper should be ANSV and submitted within a of the commencement Examination.	45 minutes	Roll No				
3. While answering the quebooklet, any cutting, ewriting or furnishing me	rasing, over- ore than one	Subject				
answer is prohibited. Any if required, should be d the main Answer Book. given in each question followed for answering tonly.	lone only on Instructions 1 should be	Descriptive Type Booklet No. B				
Signature of Scrutiniser(s)	Signature of Examiner(s)	Signature of Invigilator(s)				

/228

## 2017

(5th Semester)

## **ZOOLOGY**

Paper: ZL-VI

( Animal Physiology )

( PART : A—OBJECTIVE )

( Marks : 20 )

The figures in the margin indicate full marks for the questions

SECTION—A

( Marks: 5)

Put a Tick ( $\checkmark$ ) mark against the correct answer in the brackets provided :  $1\times5=5$ 

1.	The ty	pe of	respiratio	n t	hat wo	orks	in	both	air	and
	water	but	requires	a	thin,	moi	st	and	hi	ghly
	vascula	arized	skin is							

- (a) pulmonary respiration ( )
- (b) cutaneous respiration ( )
- (c) internal respiration ( )
- (d) external respiration ( )

/228

2.		site at Julation ca						and	extrinsic
	(a)	activated	facto	r XI		(	)		
	(b)	activated	facto	r IX		(	)		
	(c)	activated	facto	r X		(	)		
	(d)	activated	facto	r XII	[	(	)		
3.		nitrogen nonia in tl				_			ed from
	(a)	urea	(	)					
	(b)	uric acid		(	)				
	(c)	ammonia		(	)				
	(d)	urea and	uric	acid		(	)		
4.		ch one of t eins of my			ng fo	orms	majo	r com	ponent of
	(a)	Actin	(	)					
	(b)	Myosin	(	)					
	(c)	Troponin		(	)				
	(d)	Tropomyo	sin		(	)			
ZOO	/V/06	/228							

5.		most common type of neuron having severa drites and one axon extending from the cel y is
	(a)	motor neuron ( )
	(b)	bipolar neuron ( )
	(c)	unipolar neuron ( )
	(d)	multipolar neuron ( )

(4)

SECTION—B

( *Marks* : 15 )

Write short notes on the following:  $3\times5=15$ 

**1.** Difference between extracellular and intracellular digestion

(5)

2. Open and closed circulation

(6)

**3.** Functions of kidney

(7)

4. Muscle proteins

(8)

**5.** Structure of neuron

\* \* \*

8G—300**/228** ZOO/V/06