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5 SEM TDC ZOO M 3

2017

(November)

ZOOLOGY

(Major)

Course: 503

(Animal Physiology)

Full Marks: 48
Pass Marks: 19 /14

Time: 2 hours

The figures in the margin indicate full marks for the questions

1.	(a)	Fill	in the blanks:		1×5=5
		(i)	Salivary amylase into	converts star	ch
	in a	(ii)	One complete he about secon		for
	ngh J	(iii)	In human body,	major fraction	of
		(10)	CO ₂ is transporte		

3P/411

(iv) Ammonia is converted into urea through ____ cycle.

(v) Axon releases ____ at the synapse which sets up a new impulse in the dendrites.

- (b) Write short notes on the following (any two): 5×2=1
 - (i) Cardiac cycle
 - (ii) Nephric filtrate
 - (iii) Antigen-antibody reaction
 - (iv) Balanced diet
 - (v) Neurotransmitters
- 2. What is meant by digestion? Describe the physiology of digestion and absorption of proteins in human being.

 1+2+8=1

Or

Define drug addiction. Name the four categories of drugs. What are the reasons for drug addiction in adolescents? Explain the physiological effects of drug addiction in human body.

1+3+3+4=11

3. What is muscle contraction? Write about the mechanism of muscle contraction with suitable diagrams.

Or

What is synapse? Explain with proper diagrams about the synaptic transmission in human being. 3+8=11

4. What is excretion? Write about the mechanism and regulation of urine formation in men. 3+8=11

Or

Distinguish between the following pairs:

3+4+4=11

- (a) Central nervous system and Sympathetic nervous system
- (b) Isometric contraction and Isotonic contraction
- (c) Facultative water reabsorption and Obligatory water reabsorption in kidney
