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5 SEM TDC ZOO M 3

2019

(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) Proteins are absorbed by intestine in the form of ____ acid.
 - (ii) Tropin is a part of ____ filament.
 - (iii) Major function of CO_2 is transported as ____ in human body.
 - (iv) Ammonia is converted into urea through ____ cycle.
 - (v) Acetylcholinesterase breaks down acetylcholine into acetic acid and ____.

(2)

(b) Write short notes on the following
(any two) : $5 \times 2 = 10$

(i) Branchial and pulmonary
respirations

(ii) Structure of nephron

(iii) Balanced diet

(iv) Antigen-antibody reaction

2. (a) What is cardiac cycle? 3

(b) What is electrocardiogram? 2

(c) Write about two disorders of
cardiovascular system. 6

Or

Describe the mechanism of digestion and
absorption of carbohydrate in mammalian
digestive system. $5 + 6 = 11$

3. What is muscle contraction? Write about the
mechanism of muscle contraction with
suitable diagrams. $2 + 9 = 11$

Or

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

(3)

4. 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+2+3+5=11

Or

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