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5 SEM TDC ZOO M 3

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(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 converts starch into _____.
 - (ii) One complete heartbeat lasts for about _____ seconds.
 - (iii) In human body, major fraction of CO₂ is transported as _____.

(2)

(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=10

(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=11

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. 2+9=11

(3)

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
