5 SEM TDC ZOO M 3

2018

(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

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1. (a)	Fill	in the blanks : 1×5=5
Pyon	(i)	The prevents the entry of food into the respiratory tract.
.m.	(ii)	The junction of two neurons is called
	(iii)	Morphine, used as an analgesic, is obtained from
	(iv)	The rod cells contain a purple colour pigment called
	(v)	Deficiency of oxygen in body tissues is called condition.
DO /379		(Turn Over

- (b) Write short notes on the following (any two): 5×2=10
 - (i) Molecular composition of myofilament
 - (ii) The sliding filament theory
 - (iii) Renal failure
 - (iv) Urine formation
- 2. What do you mean by absorption? Describe the physiology of absorption of carbohydrate, proteins and fats in human being. 2+9=11

Or

What is digestion? Write about the digestive secretions and their regulation. 2+9=11

3. What is the functional unit of kidney? Discuss the functional architecture of mammalian kidney with a suitable diagram.

1+7+3=11

Or

What is nerve impulse? Give an account of the origin and propagation of nerve impulse in a nerve fibre with a suitable diagram.

1+8+2=11

4. What do you mean by circulation? Describe the origin and conduction of heartbeat in man with a diagram.

1+7+3=11

Or

What do you mean by carbon monoxide poisoning? Write a note on the regulation of respiration.

4+7=11

