4 SEM TDC ZOOH (CBCS) C 9

2023

(May/June)

ZOOLOGY

(Core)

Paper: C-9

(Animal Physiology : Life Sustaining Systems)

Full Marks: 53

Pass Marks: 21

Time: 3 hours

The figures in the margin indicate full marks for the questions

1.	(a)	Fill	in the blanks:	×5=5
pro		(i)	Salivary amylase converts starc into	h
		(ii)	prevents the process of bloo clotting.	d
		(iii)	Oxyhaemoglobin after giving up it oxygen is called	S
		(iv)	The prevents the entry of food into the respiratory tract.	of
		(v)	Deficiency of oxygen in body tissuis called condition.	ie

- (b) Write short notes on (any two): 4×2=8
 - (i) Urine formation
 - (ii) Regulation of water balance
 - (iii) Nephron
- 2. Describe the chemical digestion of carbohydrate and protein in the mammalian digestive tract.

 4+4=8

Or

Describe briefly the mechanism of hormonal control of secretion of enzymes in gastro-intestinal tract.

3. What is carbon monoxide poisoning? Write a note on chemical control of respiration. 3+5=8

Or

Draw a labelled diagram of trachea. Write a note on respiratory pigments. 4+4=8

4. Describe the structure of mammalian heart with a labelled diagram. What is ECG? 6+2=8

Or

Discuss about nervous and chemical regulation of heart rate. What is blood pressure? Distinguish blood pressure from pulse pressure. 4+2+2=8

5. Write about the different components of blood and their functions. Write a note on structure and functions of haemoglobin. 3+5=8

Or

Define hemostasis. Write a note on the process of blood coagulation. 1+7=8

6. What is Rh factor? Give an account of different blood groups. 2+6=8

Or

Discuss the Kallikrein-Kininogen system. What is the difference between complement system and fibrinolytic system? 4+4=8

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