2022

ZOOLOGY — HONOURS

Paper: CC-6

Full Marks: 50

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Answer any ten questions.

1. Describe any three types of cartilag	1. Describe any three types of cartilages with proper diagram.	
2. Describe neuromuscular junction w	ith suitable diagram.	3+2
3. Draw and describe the mechanism	of impulse propagation through chemical synapse.	2+3
4. Give a brief account of the role of	f actin and myosin in muscular contraction with suitable	diagram. 3+2
5. Write short notes on the following ((any two):	2½×2
(a) Electrical synapse		
(b) Areolar tissue		
(c) Haversian system		
(d) Red and white muscle fibre.		
6. (a) Describe the role of Na ⁺ -K ⁺	ATPase pump in impulse propagation.	
(b) Write two important difference	es between collagen fibre and elastic fibre.	3+2
7. State the process of iodine uptake a	nd storage in thyroid gland with a schematic diagram.	21/2+21/2
8. Describe the histological structure of by each cell type.	anterior pituitary gland and mention the names of hormor	nes released 3+2
9. Give a brief account of signal transd	luction pathway of any one non-steroidal hormone.	5
10. Mention the names of different place	ental hormones and state their functions.	2+3
11. Describe the role of estrogen and pro	ogesterone in maintaining menstrual cycle.	21/2+21/2

Please Turn Over

X(3rd Sm.)-Zoology-H/CC-6/CBCS (2) 12. Distinguish between (any two): 21/2×2 (a) Steroid and non-steroid hormone (b) Estrous and menstrual cycle (c) Bone and cartilage. 5 13. Classify epithelial tissue according to shape of the cells with example. 14. Compare the three cortical zones of adrenal gland with reference to structural and functional aspects. (a) Mention the location and function of Leydig cells and Sertoli cells. (½+1)×2+2

(b) What is primary ossification centre?