

## 2021/TDC/CBCS/ODD/ ZOOHCC-302T/029

# TDC (CBCS) Odd Semester Exam., 2021 held in March, 2022

#### **ZOOLOGY**

( 3rd Semester )

Course No.: ZOOHCC-302T

( Animal Physiology : Controlling and Coordinating System )

Full Marks: 50
Pass Marks: 20

Time: 3 hours

The figures in the margin indicate full marks for the questions

#### SECTION—A

Answer any ten questions:

 $2 \times 10 = 20$ 

- 1. What are the different types of bones found in mammals?
- 2. Mention different types of cartilages.

(Turn Over)

- 3. Write the characteristics of striated muscles,
- 4. What is resting membrane potential?
- 5. Mention the differences between myelinated and non-myelinated nerve fibres.
- 6. What is neuromuscular junction?
- 7. What are isotonic and isometric contractions?
- 8. Mention the characteristics of muscle twitch.
- 9. Write a short note on tetanus.
- 10. Write a short note on estrous cycle.
- 11. Mention the hormones secreted by placenta.
- 12. What is feedback mechanism of hormone action?
- 13. Name the hormones secreted by pancreas.
- 14. What are hypothyroidism and hyper-thyroidism?
- 15. Mention the functions of oxytocin.

(Continued)

(3)

### SECTION—B

Ans	swer any five questions:	6×5=30
16.	classification of epithelial tissue with production diagram. Mention the important function	the oper ons +3+2=6
17.	Describe the structure of nervous tis- with suitable diagram.	sue 6
18.	Define action potential. Describe propagation of nerve impulse throumyelinated nerve fibre with suitable illustration.	igh .
19.	Define synapse. Describe the mechanism transmission of impulse through synap with diagram.	
20.	Describe the histology of different types muscle fibres with diagram.	of 6
21.	Discuss the molecular basis of musc contraction with suitable illustration.	le 6
22.	with suitable diagram. Write the hormone	



- 23. Describe the histological structure of ovary with neat diagram. Mention the hormones secreted by ovary.

  3+2+1=5
- 24. Describe the histological structure of thyroid gland with suitable diagram. Write the functions of hormones secreted by thyroid gland.
- 25. Define hormone. Describe the mechanism of protein hormone action with proper illustration.

\* \* \*

2021/TDC/CBCS/ODD/ ZOOHCC-302T/029