

**2022**

**B.A./B.Sc.**

**Third Semester**

CORE – 6

**ZOOLOGY**

*Course Code: ZOC 3.21*

(Physiology: Controlling & Coordinating Systems)

*Total Mark: 70*

*Pass Mark: 28*

*Time: 3 hours*

*Answer five questions, taking one from each unit.*

**UNIT-I**

1. Using suitable diagrams describe different types of epithelial tissues. 14
2. Mention the structure and function of different types of connective tissues with examples. 7+7=14

**UNIT-II**

3. Describe the changes in membrane potential during transmission of a nerve impulse. 14
4. Describe the different types of reflexes. Add a note on reflex arc. 10+4=14

**UNIT-III**

5. Draw and describe the ultra-structure of striated muscles. 7+7=14
6. Write short notes on the following: 7×2=14
  - (a) Summation
  - (b) Tetanus

**UNIT-IV**

7. Explain the histology of mammalian ovary with neat-labelled diagram. 14
8. Describe three contraceptive method each for male and female. 14

## UNIT-V

9. Describe the histological structure and function of thyroid. 7+7=14
10. Discuss the histological structures of the mammalian adrenal gland and functions of the hormone secreted. 7+7=14
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