Exam. Code :

: 107402

Subject Code:

2211

B.Sc. Bio-Technology Semester—II ZOOLOGY-B

Paper-BT-1

Time Allowed---3 Hours]

[Maximum Marks—40

Note: All questions of Section A are compulsory. Attempt any five questions from Section B and two questions from Section C.

SECTION-A

- Give short answers. Each question carries 1 mark.
 - (a) What is opisthonephric kidney?
 - (b) How do tropic hormones influence endocrine system?
 - (c) What is the function of corpus luteum?
 - (d) Differentiate between sacculus and utriculus.
 - (e) Write the function of epinephrine.
 - (f) What is hyoid apparatus?
 - (g) Write the similarities and differences between skeletal and cardiac muscles.
 - (h) Glial cells are important component of nervous system.
 Justify the statement.

SECTION-B

- 2. Write a note on different type of jaw suspensoria. 4
- 3. Explain the role of calcium in muscle contraction.

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- 4. Write a note on structure and function of inner ear.
- 5. Explain the synaptic transmission at neuromuscular junction.
- 6. Give an account of various hormones secreted by thyroid gland along with their functions.
- 7. Write a note on structure of adrenal gland.
- 8. Explain the evolution of genital ducts in females.
- Discuss the role of kidney in regulation of acid base balance.

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SECTION-C

- 10. Discuss in detail the structure and function of pituitary gland.
- 11. Write notes on:
 - (a) Transmission of nerve along axon
 - (b) Photoreceptors.

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- 12. Explain how the countercurrent mechanism of nephron-makes it possible for the kidney to form concentrated urine.
- Give a detailed account of structure of skeletal muscle.
 Explain the sliding filament model of muscle contraction.

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