Exam. Code : 107402 Subject Code 2211

B.Sc. Bio-Technology Semester-II

ZOOLOGY-R

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?
 - 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?
 - Write the similarities and differences between skeletal (g) and cardiac muscles.
 - Glial cells are important component of nervous system. (h) Justify the statement. 8×8

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(Contd.)

SECTION-B

4.	write a note on different type of jaw suspensoria.	4
3.	Explain the role of calcium in muscle contraction	n.
		4
4.	Write a note on structure and function of inner	ear.
		4
5.	Explain the synaptic transmission at neuromuscular junct	tion.
		4
6.	Give an account of various hormones secreted by thy	roid
	gland along with their functions.	4
7.	Write a note on structure of adrenal gland.	4
8.	Explain the evolution of genital ducts in females.	4
9.	Discuss the role of kidney in regulation of acid base bala	nce.
	Characteristics weathers a such passents from Passents	4
	SECTION-C	
10.	Discuss in detail the structure and function of pitui	tary
	gland.	6
11.	Write notes on:	
	(a) Transmission of nerve along axon	
	(b) Photoreceptors.	6
12.	Explain how the countercurrent mechanism of neph	iron ·
	makes it possible for the kidney to form concentre	ated
	urine.	6
13.	Give a detailed account of structure of skeletal muscle.	
	Explain the sliding filament model of muscle contract	
		6

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