

RAGHUNATHPUR COLLEGE
DEPARTMENT OF ZOOLOGY
U.G. 3rd Semester Class Test 2023

Course Code: **BZOCCHC302**

Course Title: Animal Physiology: Controlling & Coordinating Systems

Full Marks 30

Time 2 hours

The figures in the right hand side margin indicate marks. Candidates are required to give their answers in their own words as far as practicable.

1. Answer any ten from the following:

1X 10 = 10

- a) What is rete testis?
- b) Write the function of vasopressin.
- c) What is atretic follicle?
- d) Why blood is called a connective tissue?
- e) Give an example of an inhibitory neurotransmitter.
- f) Name the proteins found in Troponin
- g) Which voluntary muscles are not affixed to the skeleton?
- h) What is Haversian canal?
- i) Write the role of prostate gland .
- j) What is endocrine pancreas?
- k) Name the types of reflex actions.
- l) What is meant by a refractory period?
- m) What is Grave's disease?
- n) What is negative feedback system?
- o) Distinguish between G-protein receptor and steroid hormone.

2. Answer any five questions from the following:

2×5=10

- a) What is salutatory conduction of nerve impulse ?
- b) Write a note on Graafian Follicle.
- c) State the role of cAMP as second messenger in any hormone's action.
- d) Name the hormones secreted by chromaffin cells.
- e) Mention the location and function of Leydig cells.
- f) What is muscle Twitch?
- g) Write the full form of hCG and its function.
- h) Draw the structure of adrenal cortex.

3. Answer any two questions from the following:

5×2=10

- a) Briefly describe the sliding filament model of muscle contraction.
- b) Describe the role of different hormones in estrous cycle
- c) Write a short note on ossification of long bone.