

(FOR THE CANDIDATES ADMITTED
DURING THE ACADEMIC YEAR 2019 ONLY)

(NO OF PAGES: 2)

19UZY611

REG.NO

NGM COLLEGE (AUTONOMOUS) POLLACHI
END-OF-SEMESTER EXAMINATIONS: JULY- 2022

B.Sc -Zoology

MAXIMUM MARKS: 75

VI SEMESTER

TIME: 3 HOURS

PART III

ANIMAL PHYSIOLOGY AND ENDOCRINOLOGY

SECTION – A

(10 X1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS

MULTIPLE CHOICE QUESTIONS

(K1)

1. Pharynx is commonly called as _____
(a) Larynx (b) Osophagus (c) Throat (d) Thorax
2. Photoreceptor is stimulated by _____
(a) Ear (b) Eyes (c) Skin (d) Nose
3. Metanephric kidney is present in _____
(a) Fishes (b) Mollusca (c) Reptiles (d) Annelids
4. Wheel or Muller's organ is present in _____
(a) Cyclostomes (b) Protochordates
(c) Amphibians (d) Birds
5. Ovary secretes the following hormone _____
(a) Insulin (b) Oestrogen (c) Androgen (d) Progesterone

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES

(K2)

6. Define tubular heart.
7. State the functions of green glands
8. What is Reflex action?
9. Define Glucocorticoid.
10. List out the hormones secreted by thyroid gland?

(CONTD....2)

SECTION – B**(5 X 5 = 25 MARKS)****ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)**

11. a) Define lymph. Explain its composition and functions.
(OR)
b) Draw and label the ultra structure of skeletal muscle and explain its functions
12. a) Explain the regulation and mechanism of nerve impulse.
(OR)
b) Discuss the scope of endocrinology.
13. a) Which hormonal dysfunction is responsible for diabetes mellitus? Explain
(OR)
b) Explain the mechanism of transport of gases - O₂ and CO₂ across the cell membrane in animals.
14. a) Discuss the process of muscle contraction in detail.
(OR)
b) Explain the urine formation in human kidney with a suitable diagram.
15. a) Describe the structure of pancreatic gland and its functions.
(OR)
b) Comment on (a) Infertility and causes (b) Goiter and causes

SECTION – C**(4 X 10 = 40 MARKS)****ANSWER ANY FOUR OUT OF SIX QUESTIONS.****(16TH QUESTION IS COMPULSORY AND ANSWER ANY THREE QUESTIONS FROM Q.NO: 17 TO 21)****(K4) OR (K5)**

16. Discuss the role of respiratory pigments in animals
17. Write an essay on the structure, composition and functions of blood
18. Explain mechanism of osmoregulation in freshwater teleosts fishes.
19. Describe the structure of mammalian kidney with a neat sketch.
20. Write an essay on the hormones of pituitary gland and their functions.
21. Describe the mechanism of peptide hormone action.