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J – 4716

Reg. No. :

Name :

Second Semester M.Sc. Degree Examination, May 2020

Branch : Zoology

ZO 221 : ADVANCED PHYSIOLOGY AND FUNCTIONAL ANATOMY

(2019 Admission)

Time : 3 Hours

Max. Marks : 75

SECTION – A

I. Write very brief notes on any **ten** of the following. Each question carries **2** marks.

1. Bioluminescence
2. Acetyl choline
3. Rhodopsin
4. Cardiac muscle
5. Cytoskeleton
6. Coronary circulation
7. Calcium channels
8. Purkinje fibers
9. Vasopressin
10. Implantation
11. Oxytocin
12. Troponin
13. Taste receptor
14. Types of excretion
15. Amniocentesis.

(10 × 2 = 20 Marks)

P.T.O.



SECTION B

Write short notes on any **six** of the following. Each question carries **4** marks.

16. Haemodialysis
17. Types of heart
18. Moulting hormones of insects.
19. SA node and AV node.
20. Colour vision
21. Cell buffering system.
22. Peritoneal dialysis.
23. Stroke.
24. Regulation of respiration.
25. Dope test.

(6 × 4 = 24 Marks)

SECTION C

Write short essays on any **three** of the following. Each question carries **7** marks.

26. Explain the mode of action of steroid hormones.
27. Explain the mechanism of transmission of nerve impulse.
28. Briefly explain spermatogenesis.
29. Give an account of gastrointestinal hormones. Explain their functions.
30. Explain the process of regulation of sodium and water balance.

(3 × 7 = 21 Marks)

SECTION D

Write an essay on any **one** of the following. Each question carries **10** marks.

31. Explain the molecular basis of muscle contraction.
32. Explain the hormonal control of menstrual cycle.

(1 × 10 = 10 Marks)

