



(Pages : 2)

E – 3894

Reg. No. :

Name :

Fourth Semester M.Sc. Degree Examination, July 2018

Branch : Zoology

Special Subject – ENDOCRINOLOGY

ZO 241 : Vertebrate Endocrinology

(2013 Admn. Onwards)

Time : 3 Hours

Max. Marks : 75

SECTION – A

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

1. Neurotransmitters.
2. Phytohormones.
3. Eicosanoids.
4. Prostaglandins.
5. Leukotriens.
6. Steroid hormones.
7. Diacyl glycerol.
8. cAMP.
9. G proteins.
10. EGF.
11. TGFB.
12. PDGF.
13. HGF.
14. Genetic engineering.
15. NGF.

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(10×2=20 Marks)

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E – 3894



SECTION – B

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

16. General classes of chemical messengers.
17. Biosynthesis of hormones.
18. Hypothalamus and its secretion.
19. Molecular mechanism of action of amines.
20. Cell surface receptors.
21. Cyclic nucleotides.
22. Oncogenes and hormonal function.
23. Role of hormones in behaviour of animals.
24. Influence of hormones in development process.
25. Modern trends in endocrine research.

(6×4=24 Marks)

SECTION – C

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

26. Disorders of hormonal imbalance.
27. Receptors coupled with ligand gated ion channels.
28. Hormone receptor status of breast cancer.
29. Hormonal control of reproduction.
30. Methods and techniques in endocrine research.

(3×7=21 Marks)

SECTION – D

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

31. Morphology and anatomy of endocrine glands.
32. Radio isotopic studies.

(1×10=10 Marks)
