



**LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034**

**M.Sc. DEGREE EXAMINATION – ZOOLOGY**

**FOURTH SEMESTER – APRIL 2015**

**ZO 4813 - MOLECULAR ENDOCRINOLOGY AND REPRODUCTION**

Date : 20/04/2015

Dept. No.

Max. : 100 Marks

Time : 09:00-12:00

**Part A**

**Answer ALL the questions**

**(10×2=20 Marks)**

1. What is an adrenaline?
2. Write down the functions of adrenal cortex.
3. Short a note on androgens.
4. How thyroid hormones are transported?
5. What is Agonists?
6. Define cryopreservation.
7. Comment on Transducers.
8. Differentiate lipid soluble from water soluble hormones.
9. List down the functions of leydig cells.
10. What is corpus luteum?

**Part B**

**Answer any FOUR questions**

**(4×10=40 Marks)**

11. Explain the following Pituitary gland and Pancreas.
12. Write notes on endocrine disorders due to hormonal imbalance.
13. Discuss the structural functional relationship of different hormone in endocrine system.
14. Write notes on action and metabolism of hormones by target and non-target tissues.
15. Give details on the mechanism of regulations and action of Thyroid hormones.
16. What is Oogenesis? Explain the role of hormones in oogenesis.

**Part C**

**Answer any TWO questions**

**(2×20=40 Marks)**

17. Write an essay on the nature of hormonal effects and actions in signaling.
18. Describe the classification, synthesis, circulation and metabolism of steroid and non steroid hormones.
19. Write an essay on the production and application of hormones as a therapeutic agent.
20. Emphasize the role of reproductive hormones in female reproductive system.

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