



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – ZOOLOGY

FOURTH SEMESTER – APRIL 2016

ZO 4813 - MOLECULAR ENDOCRINOLOGY AND REPRODUCTION

Date: 21-04-2016
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

PART A

Answer **ALL** the questions

(10 X 2 = 20)

1. Define hormone receptor?
2. Mention any two functions of endocrine system.
3. How the thyroid is controlled?
4. Write a short note on Oogenesis.
5. What are transducers?
6. Define cryopreservation.
7. What are the different advantages of immunocontraceptives?
8. Write a short note on streptokinase.
9. Enlist the positive role of oxytocin.
10. Comment on any two different female reproductive disorder.

PART B

Answer any **FOUR** questions

(4 X 10 = 40)

11. What is acrosome? Explain the capacitation reaction.
12. Give account on different classes of hormone receptors.
13. Explain the following (i) Thyroid gland, (ii) Pituitary gland.
14. Discuss the hormonal replacement therapy for cancer.
15. Explain the role of hormones in Oogenesis.
16. Give details on genetic basis of male infertility.

PART C

Answer any **TWO** questions

(2 X 20 = 40)

17. Discuss the production of hormones, therapy and its application.
18. Explain in detail about the following (i) Adrenal medulla, (ii) Adrenal cortex, (iii) Growth hormone, (iv) FSH and LH, (v) Prostaglandins.
19. Describe the process of sex determination.
20. Explain in detail about structural and molecular events of spermatogenesis with suitable diagram.
