



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – ZOOLOGY

FOURTH SEMESTER – APRIL 2017

ZO 4813- MOLECULAR ENDOCRINOLOGY AND REPRODUCTION

Date: 25-04-2017
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

Part A

Answer ALL the questions

(10×2=20 Marks)

1. What are pheromones?
2. List the functions of interferon.
3. Comment on the role of progesterone.
4. Enlist the functions of the acrosome.
5. What are transducers?
6. Write a note on corpus luteum.
7. Comment on oxytocin.
8. Differentiate anaphase from metaphase.
9. Define Folliculogenesis.
10. What do you mean by varicocele?

Part B

Answer any FOUR questions

(4×10=40 Marks)

11. Write about any four major endocrine glands.
12. Describe the role of hormone-receptor interactions in endocrines system.
13. Write a note on mechanisms of hormone action and signaling in endocrine system.
14. Discuss on the regulation and mechanism of thyroid hormone.
15. Explain the regulation and functioning of sex hormones.
16. Explain the different stages of follicular development with appropriate illustration.

Part C

Answer any TWO questions

(2×20=40 Marks)

17. Enumerate hormonal effects and actions in signaling targeted and non targeted organs.
18. Give a detailed account of reproductive hormones of females.
19. State the importance of hormones used as therapeutic agent with example.
20. Describe the role reproductive hormones in spermatogenesis and male infertility.

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