

23P315

(Pages: 2)

Name:

Reg.No:

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2024

(CBCSS - PG)

(Regular/Supplementary/Improvement)

CC19P ZOL3 C08 - DEVELOPMENTAL BIOLOGY AND ENDOCRINOLOGY

(Zoology)

(2019 Admission onwards)

Time : 3 Hours

Maximum : 30 Weightage

Part-A

Answer any *four* questions. Each question carries 2 weightage.

1. What is differentiation?
2. What are deuterostomes?
3. What is LIN-3 protein?
4. What is DNA methylation?
5. What is threshold hypothesis?
6. What is super regeneration?
7. Explain regulation of receptor number and receptor activation with the help of an example.

(4 × 2 = 8 Weightage)

Part-B

Answer any *four* questions. Each question carries 3 weightage.

8. Differentiate between holoblastic cleavage and meroblastic cleavage.
9. Explain models of cell differentiation.
10. Explain environmental disruption of normal development.
11. Explain hormone secreting organs and types of chemical messengers.
12. Describe adenohipophysial hormones.
13. Explain the roles of hormones in female monthly rhythm.
14. Define neural messengers with special emphasis on gases.

(4 × 3 = 12 Weightage)

Part-C

Answer any *two* questions. Each question carries 5 weightage.

15. Write an essay on axis formation in Drosophila.
16. Write an essay on tetrapod limb development.

17. Write an essay on stem cells.

18. Explain synthesis, chemistry and metabolism of androgens and its control on testicular function.

(2 × 5 = 10 Weightage)
