

25102 (OR)

M.Sc. DEGREE EXAMINATION, APRIL 2015.

SECOND SEMESTER

Zoology

Paper II — GAMETE AND DEVELOPMENTAL BIOLOGY

Time : Three hours

Maximum : 75 marks

(No additional sheet will be supplied)

PART A — (5 × 3 = 15 marks)

Answer any FIVE questions.

Each question carries 3 marks.

1. Vitellogenesis
2. Gonad
3. Fecundity
4. Cleavage
5. Spermatogoa
6. Mesoderm
7. Germ cell
8. Y-Specific probes

PART B — (4 × 15 = 60 marks)

Answer ALL questions.

Each question carries 15 marks.

9. Give an account on germ cell determination in amphibians.
Or
10. Describe the germ cell migration in birds and mammals.
11. Write an essay on Oogenesis.
Or
12. Give an account on biochemistry of fertilization and post fertilization.
13. Write an essay on tetrapod limb development.
Or
14. Give an account on metamorphosis in amphibians.
15. Write an account on secondary sex determination in mammals.
Or
16. Describe the establishment of body axes in birds.

