## M.Sc. DEGREE EXAMINATION, APRIL 2015. SECOND SEMESTER

## Zoology

## Paper II — GAMETE AND DEVELOPMENTAL BIOLOGY

Time: Three hours

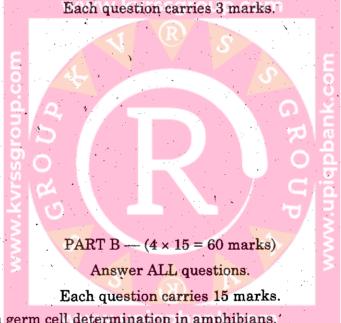
Maximum: 75 marks

(No additional sheet will be supplied)

PART A —  $(5 \times 3 = 15 \text{ marks})$ 

Answer any FIVE questions.

- $1. \hspace{0.5cm} \cdot \hspace{-0.5cm} \textbf{Vitellogenesis}$
- 2. Gonad
- 3. Fecundity
- 4. Cleavage
- 5. Spermatogoa
- 6. Mesoderm
- 7. Germ cell
- 8. Y-Specific probes



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.

 $\mathbf{Or}$ 

- 12. Give an account on biochemistry of fertilization and post fertilization.
- 13. Write an essay on tetrapod limb development.

 $\cdot$  Or

- 14. Give an account on metamorphosis in amphibians.
- 15. Write an account on secondary sex determination in mammals.

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16. Describe the establishment of body axes in birds.

