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		TONE AFA DOTT COLF

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, MARCH 2017

(CUCBCSS-UG)

Zoology

ZOL 6B 13—REPRODUCTIVE BIOLOGY, DEVELOPMENTAL BIOLOGY AND TERATOLOGY

Time: Three Hours Maximum: 80 Marks

- A. Answer all questions. Each carries 1 mark:
 - 1 What is parturition?
 - 2 What is cleidoic egg?
 - 3 What is teratology?
 - 4 What is ontogeny?
 - 5 Who proposed the Theory of Preformation?
 - 6 What are cortical granules?
 - 7 What is blastopore?
 - 8 What is archenteron?
 - 9 How many pairs of somites are present in 24 hours chick embryo?
 - 10 What is endometrium?

 $(10 \times 1 = 10 \text{ marks})$

- B. Answer any ten questions in two or three sentences each. Each carries 2 marks:
 - 11 What is corpus luteum?
 - 12 What is capacitation?
 - 13 What is surrogacy?
 - 14 What is gestation?
 - 15 What is GIFT?
 - 16 Name any two types of cells in the testis and their functions.

- 17 Explain primary, secondary and tertiary egg membranes with examples.
- 18 What is cell lineage?
- 19 What is a fate map?
- 20 What is primitive streak?
- 21 What is morula? 22 Citing one example, describe how environmental factors cause teratogenic effects.

 $(10 \times 2 = 20 \text{ marks})$

- C. Answer any five questions in not more than a paragraph each. Each carries 6 marks.
 - 23 Describe the structure of a Graafian follicle with the help of labelled sketch.
 - 24 With the help of a diagram, describe oogenesis.
 - 25 Write notes on in vitro fertilization and embryo transfer.
 - 26 What is prenatal diagnosis? Briefly describe amniocentesis.
 - 27 Explain recapitulation theory.
 - 28 What are germ layers? Name the types of germ layers and their derivatives.
 - 29 Explain radial cleavage and spiral cleavage with diagrams and examples.
 - 30 Describe different types of blastula.

 $(5 \times 6 = 30 \text{ marks})$

- D. Write essays on any two of the following. Each carries 10 marks.
 - 31 With the help of labelled diagrams describe the development of eye in frog.
 - 32 Describe reproductive cycles in mammals and their hormonal control.
 - 33 With the help of diagrams describe the embryonic development of man up to implantation. Add a note on pregnancy and parturition.
 - 34 With the help of labelled sketches, classify different types of eggs with suitable examples. $(2 \times 10 = 20 \text{ marks})$