

Roll No.

V - 5642

M. Sc. (Third Semester)

EXAMINATION, Nov./Dec., 2019

ZOOLOGY

Paper -302

DEVELOPMENT BIOLOGY

Time : Three Hours

Maximum Marks : 85

Minimum Pass Marks : 29

Note- Attempt all questions. Illustrate your answers with suitable diagrams.

1. Describe any five of the following-

- (i) Chromosomal puffs.
- (ii) Sperm maturation.
- (iii) Polarity in amphibian egg.
- (iv) Types of gastrulation.
- (v) HCG.
- (vi) Physiological functions of placenta.
- (vii) Xenobiotics and their impact on developing follicles.

P.T.O.

(viii) Influence of pituitary on wolffian lens regeneration.

(ix) Connective tissue cell family.

(x) Totipotency.

Unit - I

2. Describe the origin and migration of primordial germ cells.

Or

What is oogenesis ? Describe the various events occurring during oogenesis. Add a note on gene expression during oogenesis.

Unit - II

3. What is fertilization ? Describe pre and post fertilization events.

Or

Describe embryo transfer technology. Write the applications of this technology.

Unit - III

4. What is parturition ? Describe the role of different hormones on the process of parturition. http://www.jiwajionline.com

Or

Write short notes on-

- (i) Initiation of lactation
- (ii) Cryopreservation of gametes.

Unit - IV

5. Describe the mechanism of melanogenesis. Explain the various factors which regulate melanogenesis

Or

Describe the differentiation and development of male gonad.

Unit - V

6. What are stem cells? Describe the applications and significance of embryonic stem cells.

Or

Describe the formation of different types of blood cells.

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