Printed	Pages -	3
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M-6532

M.Sc. (IIIrd Semester) Examination, 2020 **ZOOLOGY**

(Developmental Biology)

Time Allowed: Three Hours

Maximum Marks: 70

Minimum Pass Marks: 28

Note: Attempt any five questions, selecting one question from each unit.

Unit - I

Q. 1. Describe the mutation & identification of developmental genes.

Or

Q. 2. Describe the mitosis cell division. Write the importance of crossing over.

Unit - II

Q. 3. What is morphogenesis? Explain the process of morphogenesis.

M-6532 P.T.O.

(2)

Or

Q. 4. Write note on any two of the following: 7+7=14

(i) Formation of blastula

(ii) Segment polarity genes

Unit - III

Q. 5. What is organogenesis? Explain the development of proximal distal & dorso-ventral axis formation.
14

Or

Q. 6. Write notes on : **7+7=14**

i) Insect compound eye,

(ii) Development of butterfly wing

Unit - IV

Q. 7. What is regeneration? Explain the regeneration of salamander limb.

Or

14

Q. 8. Describe the growth hormones.

M-6532

(3)

Unit - V

Q. 9. Explain the gene expression and human disease.

Or

Q. 10. Write short note:

7+7=14

- (i) Teratogenic agents like alcohol
- (ii) Phenotypic variability

M-6532 100