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PART – C (3 × 15 = 45)

Answer any THREE questions.

No answer should exceed 1,500 words.

ALL questions carry EQUAL marks.

21. Describe Biogenetic law.
22. Write an essay on types and morphology of egg in different animal you have studied.
23. Write an account on placentation in mammals.
24. Describe post fertilization changes in the egg.
25. Give an account on mosaic theory.

Register Number :

Name of the Candidate :

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B.Sc. DEGREE EXAMINATION, 2013

(ZOOLOGY)

(THIRD YEAR)

(PART - III)

(PAPER - VI)

740. DEVELOPMENTAL BIOLOGY

May]

[Time : 3 Hours

Maximum : 100 Marks

PART – A (10 × 2 = 20)

Answer any TEN questions.

Each answer should not exceed 50 words.

ALL questions carry EQUAL marks.

Explain the following:

1. Gradient theory.
2. Spermatozoa.
3. Macrolecithal.

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4. Parthenogenesis.
5. Blastula.
6. Invagination.
7. Yolk sac.
8. Plastema.
9. Gastrulation.
10. Cell linkage.
11. Metamorphosis.
12. Cornea.
13. Midbrain.
14. Frog's egg.
15. Emboly.

PART – B (5 × 7 = 35)

Answer any FIVE questions.

Each answer should not exceed 300 words.

ALL questions carry EQUAL marks.

16. (a) Write short notes on types of sperms.

(OR)

- (b) Explain oogenesis.

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17. (a) Explain the process of gastrulation in bird.

(OR)

- (b) Write short notes on the process of gastrulation in Amphiox.

18. (a) Discuss nuclear transplantation and gradients in animals.

(OR)

- (b) Describe the importance of metamorphosis in Amphibia.

19. (a) Explain organizers with an example.

(OR)

- (b) Write an account on extra embryonic membrane in mammals.

20. (a) Describe the primary organizers.

(OR)

- (b) Explain nuclear transplantation and gradients.

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