

A-9064

Sub. Code

4MZO3C1

M.Sc. DEGREE EXAMINATION, NOVEMBER 2019

Third Semester

Zoology

DEVELOPMENTAL BIOLOGY

(CBCS – 2014 onwards)

Time : Three Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Sertoli cells
2. Meso lesithal eggs
3. Archenteron
4. Emboli
5. Morula
6. Mesoderm
7. Paedogenesis
8. Identical twins
9. Cryopreservation.
10. Foster mother.

Part B $(5 \times 5 = 25)$

Answer **all** questions, choosing either (a) or (b).

11. (a) Explain about Oogenesis.

Or

- (b) Write short note on polarity.

12. (a) Briefly describe about parthenogenesis.

Or

- (b) Write short note on determinate eggs.

13. (a) Write short note on mesonephric kidney.

Or

- (b) Briefly describe about somites.

14. (a) Write a short note on regeneration in planaria.

Or

- (b) Write brief account on Hox gene.

15. (a) Briefly explain about sperm bank.

Or

- (b) Briefly describe about types of placenta.

Part C $(3 \times 10 = 30)$

Answer any **three** questions.

16. Discuss about spermatogenesis and spermiogenesis.

17. Explain about the organizer concept.

18. Describe about the development of eye.
 19. Discuss about types of cleavage and factors affecting cleavage.
 20. Explain about the modern advances in developmental biology.
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