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SVS-320-B-19
B.Sc. V Semester Degree Examination
ZOOLOGY
Paper - Z - 5.1
Cell And Developmental Biology

Time : 3 Hours

Maximum Marks : 80

Instructions to Candidates:

1. Answer to all the questions.

2. Draw diagrams wherever necessary.

SECTION - A

I Answer the following in one word or one sentence.

(15×1=15)

- 1) Corpus luteum.
- 2) Chorion.
- 3) Cisternae.
- 4) Blastula.
- 5) Chromatography.
- 6) Notogenesis.
- 7) Meroblastic cleavage.
- 8) Fixative
- 9) S-phase
- 10) Chemotaxis.
- 11) Female pronucleus.
- 12) Lymphoma.
- 13) Micro filament.
- 14) Primitive streak.
- 15) Spermiogenesis.

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(1)

[Contd....

SECTION-B

II. A) Write short notes on any **THREE** of the following:

(3×5=15)

16. Sketch and label 36 hours chick embryo.
17. Acrosomal reaction.
18. Structure of amphibian ovum.
19. Functions of extra embryonic membranes.

B) Answer in brief on any **TWO** of the following:

(2×5=10)

20. Role of mitotic spindle during anaphase.
21. Ultra structure of Golgi complex.
22. Characteristics of cancer cell.

SECTION - C

III. A) Write explanatory note on any **THREE** of the following:

(3×10=30)

23. Spermatogenesis.
24. Histological classification of placenta.
25. Mechanism of fertilization.
26. Kinds of parthenogenesis and their significances.

B) Write explanatory note on any **ONE** of the following:

(1×10=10)

27. Ultra structure and functions of mitochondrion.
28. Regulation of cell cycle.

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