



'সমানো মন্ত্র: সমিতি: সমানী'

UNIVERSITY OF NORTH BENGAL

B.Sc. Honours 6th Semester Examination, 2022

CC13-ZOOLOGY

Time Allotted: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks.

GROUP-A

1. Answer any **five** of the following: 1×5 = 5
- (a) Define oligolecithal egg.
 - (b) Define meroblastic cleavage.
 - (c) Define Balfour's Law of cleavage.
 - (d) What is chorion?
 - (e) What is contra-deciduate placenta?
 - (f) What is Vitellogenin?
 - (g) What do you mean by fertilizin?
 - (h) Define epiboly.

GROUP-B

2. Answer any **three** of the following: 5×3 = 15
- (a) Write a note on fate map of frog.
 - (b) Distinguish between slow block and fast block polyspermy in sea-urchin.
 - (c) Classify Placenta on the basis of Chorionic Villi.
 - (d) Write a note on holoblastic cleavage.
 - (e) Write a brief note on blastulation of frog.

GROUP-C

3. Answer any **two** of the following: 10×2 = 20
- (a) Describe the process of gastrulation in frog with suitable diagrams.
 - (b) Elucidate the process of development of brain in chick.
 - (c) Briefly describe different types of extra embryonic membranes in chick with suitable diagrams.
 - (d) With suitable diagram elucidate the process of acrosome reaction and its importance in sea-urchin.

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