

Model Question paper
Developmental Biology (Z) 3

11th Standard

Biology

Reg.No. :

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I. Answer all the questions.

II. Use blue pen only.

Time : 00:45:00 Hrs

Total Marks : 31

Part - A

5 x 1 = 5

- 1) Discoidal cleavage is seen in the eggs of
(a) birds (b) amphibians (c) insects (d) amphioxus
- 2) Aristotle, in his work 'De Historia Animalium', described about.....
(a) Evolution of man (b) Origin of species (c) Development of hen's egg (d) Phylogeny
- 3) Mesolecithal eggs are seen in.....
(a) Amphioxus (b) Molluscs (c) Reptiles (d) Birds
- 4) In the egg of sea urchin, blastomeres divide for every.....
(a) 30 minutes (b) one hour (c) 3 hours (d) week
- 5) The organ that does not develop from mesoderm is
(a) Kidneys (b) Coelom (c) Median fin (d) Reproductive orga.

Part - B

5 x 2 = 10

- 6) Why do we consider Aristotle as the founder of science of embryology?
- 7) What are microlecithal eggs?
- 8) Define meridional cleavage.
- 9) What is a 'fate map'?
- 10) What is involution?

Part - C

2 x 3 = 6

- 11) Give an account of the megalecithal egg.
- 12) Provide a general account on cleavage.

Part - D

2 x 5 = 10

- 13) Give an account on the cleavage of fertilized egg.
- 14) Tabulate the differences between spermatogenesis and oogenesis.
