

Model Question paper
Developmental Biology (Z) 2

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) Sach's law is related to
(a) gametogenesis (b) cleavage (c) gastrulation (d) organogenesis
- 2) Discoidal cleavage is seen in
(a) Insects (b) Frog (c) Amphioxus (d) Monotremes
- 3) "The rate of cleavage is inversely proportional to the amount of yolk in the egg". This is
(a) Sach's law (b) Balfour's law (c) Baltzer's law (d) Hertwig's law
- 4) The blastomeres that move inward by involution over the dorsal lip of the blastopore are
(a) Endodermal cells (b) Ectodermal cells (c) Mesodermal cells (d) All types of cells
- 5) Which of the, following structure develops from the mesoderm?
(a) Lateral line sense organ (b) Centralnervous system (c) Lungs (d) Heart

Part - B

5 x 2 = 10

- 6) What is a morula?
- 7) Define meridional cleavage.
- 8) Mention Balfour's law regarding cleavage.
- 9) What is a 'fate map'?
- 10) What is involution?

Part - C

2 x 3 = 6

- 11) What is Sach's law?
- 12) What are the endodermal derivatives in the organogenesis of frog embryo?

Part - D

2 x 5 = 10

- 13) Describe the structural organisation n the neurula of frog.
- 14) Describe the different plane of cleavage.

