

Model Question paper
Developmental Biology (Z) 1

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 : 32

6 x 1 = 6

Part - A

- 1) The process of spermiogenesis involves
(a) production of sperms (b) differentiation of spermatids into spermatozoa (c) formation of testis (d) differentiation of nucleus
- 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) Which of the following cell is in diploid condition?
(a) Primary spermatocytes (b) Secondary spermatocyte (c) Spermatid (d) Spermatozoan
- 4) If the developmental stages are not very elaborate, the egg should be of.....
(a) Megalecithal (b) Cleidoic (c) Mesolecithal (d) Microlecithal
- 5) The type of cell division that place cleavage process is.....
(a) Mitosis (b) Amitosis (c) Meiosis (d) Reduction division
- 6) The type of cleavage seen in isolecithal egg is cleavage.
(a) Meroblastic (b) Superficial (c) unequal holoblastic (d) Holoblastic equal

Part - B

5 x 2 = 10

- 7) Provide a list of various stages in the embryology of animals.
- 8) Why do we consider Aristotle as the founder of science of embryology?
- 9) What are the several diversified fields formed from modern embryology?
- 10) What are microlecithal eggs?
- 11) What is a morula?

Part - C

2 x 3 = 6

- 12) Give an account of the megalecithal egg.
- 13) What is a centrolecithal egg?

Part - D

2 x 5 = 10

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