(i) Printed Pages: 2

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Roll No.

(ii) Questions

Sub. Code: 0

0 4 5 6

Exam. Code: 0

B.A./B.Sc. (General) 5th Semester

(2122)

ZOOLOGY

(Developmental Biology)

Paper-I (ZOO-501)

Time Allowed: Three Hours]

[Maximum Marks: 36

Note:—Question No. 1 is compulsory. One question is to be attempted from each Unit. In all, five questions are to be attempted including the compulsory question. Draw diagrams wherever necessary to support your answer.

- 1. Explain briefly:
 - (a) Egg polarity
 - (b) Organizers
 - (c) Yolk sac
 - (d) Lipochondria
 - (e) Anisogamy
 - (f) Subtesticular cells
 - (g) Intercalation
 - (h) Paedogenesis.

1×8

UNIT-I

2.	Write notes on:	
	(a) Vitellogenesis	3.5
	(b) Role of follicle cells in gametogenesis.	3.5
3.	Write notes on:	
	(a) Polarity of egg	3.5
	(b) Egg membranes and their functions.	3.5
	UNIT-II	
4.	Describe the various cleavage patterns depending up orientation of mitotic apparatus and give significate cleavage.	ance of
5.		7
	(b) Discoidal cleanage	1.5
	(c) Parthenogenesis.	1.5
	UNIT-III	1.5
6.	Write short notes on interaction of cell:	
	(a) Juxtacrine and paracrine interaction	
	(b) Gap junctions	3
	(c) Inducers and their role in development.	2
7.	Give development upto 3 germ layers in Frog.	2
	UNIT-IV	7
8.	(a) Comment on metamorphosis in Herdmania.	4
	(b) Describe the different types of placenta regarding distribution of villi.	ng the
9.	Describe foetal membranes of Rabbit, their formatio role.	