Roll No.

(01/22-II)

5247

B.Sc. EXAMINATION

(Fifth Semester)

ZOOLOGY

Paper II

Evolution and Developmental Biology

Time: Three Hours Maximum Marks: 40

Note: Attempt Five questions in all, selecting two questions from each Section A and Section B. Q. No. 1 is compulsory.

- 1. (a) Coacervates
 - (b) Atavism
 - (c) Allopatric speciation
 - (d) Australopithecus
 - (e) Darwin's Finches

	(I)	Affilellotokus
	(g)	Epimorphosis
	(h)	Somatopleure
	(i)	Periblastula
	(j)	Primitive Streak. 1×10=10
		Section A
	Disc	cuss various embryological evidences in
	favo	our of evolution. 7½
	Writ	e notes on the following:
	(a)	Mesohippus 2½
	(b)	Industrial melanism 2½
	(c)	Missing links. $2\frac{1}{2}$
	(a)	types of Noturel S. I.
	(b)	
•	(a)	Explain the theories of origin of Eukaryotes. 4

(b) Enlist morphological changes in human evolution. 3½

Section B

6. Describe the process of gastrulation in Frog.

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- 7. (a) Draw electron microscopic structure of Human sperm. 5
 - (b) Give differences between Holoblastic Cleavage and Meroblastic Cleavage. 21/2
- 8. Explain the various types of extra-embryonic membranes in amniotes. 7½
- 9. Write notes on the following:

(a) Neural induction

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(b) Competence.

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