Roll No.

(12/24)

## 5247

## **B.Sc. EXAMINATION**

(For Batch 2011 & Onwards)

(Fifth Semester)

**ZOOLOGY** 

Paper II

Evolution and Developmental Biology

Time: Three Hours Maximum Marks: 40

Note: Attempt Five questions in all, selecting one question from each Section. Q. No. 1 is compulsory.

- 1. Define the following terms:  $1 \times 10 = 10$ 
  - (a) Coacervates
  - (b) Chemoautotrophs
  - (c) Connecting links
  - (d) Carboniferous period

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(e)	Dawn Horse		D11	D:	zen la solip
(f)			5.		cuss in detai
(g)				of r	man.
(h)					
(i)	Viteriogensis		6.	(a)	Draw a f
(j)	Epiboly.		,		control of
	Section A			(b)	Write note
De	scribe in detail Chemosynthetic theory	y of			Spermioge
	gin of life.	7.5		(c)	Draw struc
(a)	Differentiate between homologous	and			
	analogous organs.	3	7.	(a)	T1 a
(b)	Write a detailed note on origin	and	7.	(a)	Explain the
	evolution of Prokaryotes.	4.5		(b)	Describe th
Wr	ite notes on the following:		8.	(a)	Describe th
	Mechanism of natural selection.	3.5		(b)	What is er
(b)	Microevolution with examples.	2		( )	the role
(c)		2			induction.
Li Li					mouction.
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## Section B

6. (a)	Draw a	a flowchart	depicting	Hormonal
7.30	control	of spermato	genesis.	2.5

- on acrosome formation during nesis.
- cture of mature human ovum.

- e mechanism of fertilization. 4
  - he planes of cleavage. 3.5
- he gastrulation of Frog.
  - mbryonic induction? Discuss of grey crecent in neural 3.5

9.	(a)	Write a note on formation of amnion and		
		chorion in chick.	3.5	
	(b)	Level of differentiation.	2	
	(c)	Restorative regeneration.	2	

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