(6th Semester)

ZOOLOGY

Paper: ZL-X

(Developmental Biology)

Full Marks: 55

Time: 21/2 hours

(PART : B-DESCRIPTIVE)

(Marks: 35)

The figures in the margin indicate full marks for the questions

1. Describe the different types of eggs.

7

Or

What is parthenogenesis? Explain the two types of parthenogenesis. 1+6=7

2. What is fate map? Discuss the different methods for the construction of fate maps.

1+6=7

Or

Describe the two basic types of mammalian placentae and add a note on the functions of placenta.

5+2=7

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🖽 (Turn Over)

3. What do you understand by morphogenetic fields? Write in detail the double-gradient theory.

2+5=7

Or

Discuss the concept of embryonic induction with examples.

4. Discuss the process of metamorphosis in insects and its hormonal regulations. 5+2=7

O

Explain the mechanism of regeneration in Amphibia.

7

7

5. Describe the concept of ageing.

Or

Write an account on IVF.

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2015

(6th Semester)

ZOOLOGY

Paper: ZL-X

(Developmental Biology)

(PART : A—OBJECTIVE)

(Marks : 20)

The figures in the margin indicate full marks for the questions

SECTION-A

(Marks : 5)

Put a Tick (✓) mark against the correct answer in the brackets provided: 1×5=5

1. The blastula of Amphioxus is

(a) Coeloblastula ()	a) Coeloblastula	(a)
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- (b) Descoblastula ()
- (c) Periblastula ()
- (d) None of the above ()

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2. Which of the following is a type of repair involving a reorganization of the remaining part of the body of an animal?
(a) Heteromorphosis ()
(b) Epimorphosis ()
(c) Morphallaxis ()
(d) None of the above ()
A
3. Hormone which helps in maintenance of pregnancy and prevents premature parturition is
(a) relaxin () as summing an long state of the state of
(b) progesterone ()
(c) oestrogen ()
(d) None of the above
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4.	suc	ich one of the following cleavages occurs when the cessive cleavage planes cut straight through the at right angles to one another?
- g -=='	(a)	Biradial cleavage ()
	(b)	Radial cleavage ()
	(c)	Spiral cleavage ()
	(d)	Rotational cleavage ()
5.	acc	ich of the following is urinary bladder by origin, umulates the embryonic wastes and also acts as embryonic respiratory surface?
	(a)	Allantois ()
	(b)	Amnion ()
	(c)	Chorion ()
	(d)	None of the above ()

SECTION—B

(Marks: 15)

Write short notes on the following in not more than $3\times5=15$

1. FAS (Foetal Alcoholic Syndrome)

2. Involution

3. Properties of organizer

(7)

Stem cells

8. Viviparity

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