2017

(6th Semester)

ZOOLOGY

Paper: ZL-X

(Developmental Biology)

Full Marks: 55

Time: 2½ hours

(PART: B—DESCRIPTIVE)

(*Marks* : 35)

The figures in the margin indicate full marks *for the questions*

1. What do you mean by parthenogenesis? Describe the different processes of parthenogenesis giving suitable examples. 1+6

Or

Mention the different types of egg with labelled diagrams. 7

2. Write down the gastrulation process in Amphioxus.

Or

What are the functions of placenta? Describe the classifications of mammalian placenta. 3+4

3. Explain the gradient theory with experimental evidences.

Or

Discuss the concept of embryonic induction giving examples.

4. Write about the metamorphosis of insect and its hormonal regulation.

Or

Describe the process of regeneration in invertebrates.

5. Explain the developmental defects. 7

Or

Write an account on IVF.

G7/431a

(Turn Over)

7

G7-350/431a

ZOO/VI/10

7

7

7

7

7

Subject Code : ZOO/	VI/10	Booklet No. A						
To be filled in by th		Date Stamp						
DEGREE 6th Semest (Arts / Science / Co	mmerce / m., 2017							
Paper		To be filled in by the Candidate						
INSTRUCTIONS TO C	ANDIDATES	DEGREE 6th Semester						
 The Booklet No. of this quoted in the answer s descriptive type ques versa. 	script meant for	(Arts / Science / Commerce /) Exam., 2017						
2. This paper should be All and submitted within of the commencer Examination.	45 minutes	Roll No						
3. While answering the q booklet, any cutting, writing or furnishing	erasing, over- more than one	SubjectPaper						
answer is prohibited. A if required, should be the main Answer Boo given in each quest followed for answering only.	e done only on ok. Instructions ion should be	Descriptive Type Booklet No. B						
Signature of Scrutiniser(s)	Signature of Examiner(s)	Signature of Invigilator(s)						

/431

2017

(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 (\checkmark) mark against the correct answer in the brackets provided : $1\times5=5$

1. Thelytoky refers to

(a)	complete partnenogenesis	()	
(b)	incomplete parthenogenesis		(
(c)	haploid parthenogenesis	()		
(d)	diploid parthenogenesis	()		

/431

2.	The is	dev	veloped chi	ick e	mb	ryo	wh	ich	has	s an	F-s	shap	ed
	(a)	24	hours	()								
	(b)	33	hours	()								
	(c)	48	hours	()								
	(d)	72	hours	()								
3.	inw blas	ard: stop	ching the s by rolling ore in the	g ove pro	r th	ne la s of	ater						
	(a)	inv	agination										
	(b)	inv	olution	()							
	(c)	ing	gression	()							
			ne of the a	abov	e		()					
ZOO,	/VI/1	.0 /4	31										

4.		ong vertebrates, the regeneration process is most onishing in
	(a)	amphibian ()
	(b)	reptilian ()
	(c)	avian ()
	(d)	mammalian ()
5.		e hormone which helps in maintenance of gnancy and prevents premature parturition is
	(a)	oestrogen ()
	(b)	progesterone ()
	(c)	relaxin ()
	(d)	None of the above ()
ZOO	/VI/1	10/431

(4)

SECTION—B

(*Marks*: 15)

Write short notes on the following in not more than 5 to 8 sentences each : $3 \times 5 = 15$

1. Cleavage

(5)

2. Invagination

ZOO/VI/10**/431**

(6)

3. Morphogenetic fields

(7)

4. Thyroxine

ZOO/VI/10**/431**

(8)

5. Pluripotent stem cell

G7—350**/431** ZOO/VI/10