

MAO-003-001643

Seat No.

B. Sc. (Sem. VI) (CBCS) Examination

March / April - 2018

Zoology

(Rep. Phys., Embry, Evolut., Env. Poll. & Ecology) (New Course)

> Faculty Code: 003 Subject Code: 001643

Time : $2\frac{1}{2}$ Hours] [Total Marks : 70

Instructions: (1) Illustrate your answers with neat and labeled diagram.

- (2) Figures to the right side indicate full marks for the question.
- 1 Answer the following questions.

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- (1) How many pairs of somites are present in 24 hours chick embryo?
- (2) Which cells give nourishment to spermatozoa?
- (3) First secretion of milk in human is known as _____.
- (4) Which type of placenta found in Human?
- (5) How many percentage of carbon dioxide is present in atmosphere?
- (6) Mutual adhesion of sperm is known as ______.
- (7) Define food web.
- (8) What is external fertilization?
- (9) What is placenta?
- (10) Sertoli cells found in _____
- (11) Which enzyme involved in N₂ Fixation?
- (12) Give a full form of BOD.
- (13) Which hormone is secreted by placenta?
- (14) Define Ecosystem.
- (15) The space between fertilization membrane and the surface of the egg is called
- (16) In which region Marsupials and Monostremes are found?
- (17) India is included in which region?
- (18) Which heavy metal is a source of air pollution?
- (19) In which layer Ozone layer is situated?
- (20) Which animal is key to understanding evolutionary theory of Darwin?

2	(a)	Write any three out of six:	6
	` /	(1) Significance of parthenogenesis.	
		(2) What is primitive streak?	
		(3) Cleavage pattern in chick embryo.	
		(4) Describe Area Pellucida.	
		(5) Factors affecting regeneration.	
		(6) Significance of Fertilization.	
	(b)	Answer any three out of six :	9
	(~)	(1) Describe structure of mammalian sperm.	v
		(2) Types of regeneration.	
		(3) Describe 72 hrs chick embryo.	
		(4) Flora and fauna of Australian region.	
		(5) Regeneration in Salamander.	
		(6) Describe Javaman and Packing man.	
	(c)	Answer any two out of five :	10
	(0)	(1) Process of fertilization in detail.	10
		(2) Histological types of placenta.	
		(3) Structure and function of mammary gland.	
		(4) Describe Parthenogenesis.	
		(5) Structure and function of mammalian ovum.	
		(9) Structure and renetion of mammanan ovem.	
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