

MAN-003-001642

Seat No.

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

March / April - 2018 Zoology : Z - 603

(Reproductive Physiology, Embryology, Evolution, Environment Pollution & Ecology) (New Course)

> Faculty Code: 003 Subject Code: 001642

Time : $2\frac{1}{2}$ Hours]

[Total Marks: 70

Instructions: (1) Illustrate your answer with neat and labelled diagram.

- (2) Figures to the right side indicate full marks of the questions.
- 1 Write answer of following question in short:

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- (1) Which layer of secondary ovarian follicle secretes estrogen ?
- (2) Importance of calcium ion in fertilization.
- (3) Give an example of complete parthenogenesis.
- (4) Which type of cleavage occurs in chick?
- (5) Write only name of process which are involve in gastrular morphogenetic movements.
- (6) How many pairs of somites present in 48 Hrs chick embryo?
- (7) Which type of placenta present in marsupials?
- (8) Define epimorphosis.
- (9) Which hormone involve in implantation and placentation.
- (10) Which geographical region has no land connection with other regions ?
- (11) Write the name of primary air pollutants.
- (12) Define Eco system.

	(13)	Write the fauna of Ethiopian region.
	(14)	man called homosapiens fossilis was the extinct modem man.
	(15)	Write the name of Green house gases.
	(16)	Give names of Nitrogen fixing organism.
	(17)	What is mortality?
	(18)	Anterior end of primitive streak thickening is known
		as
	(19)	Name the physiological process in regeneration.
	(20)	What is colostrum?
2	(a)	Write any three out of six:
		(1) Galapogas Island.
		(2) Significance of primitive streak.
		(3) Define area opaca and area pellucida.
		(4) Causes of water pollution.
		(5) Write only name of patterns of zoogeographical patterns.
		(6) Functions of placenta.
	(b)	Write any three out of six:
		(1) Air pollution.
		(2) Hormonal control of placenta.
		(3) Zonary, diffused and discoidal type of placenta.
		(4) Population density.
		(5) Describe neotropical region.
		(6) N ₂ Cycle.
	(c)	Write any two out of five:
		(1) 48 Hrs Chick embryo.
		(2) Structure of mammary gland.
		(3) Energy flow.
		(4) Describe regeneration in amphibia.
		(5) Structure of mammalian ovum.
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3	(a)	Write any three out of six:	6
		(1) Sulphur cycle.	
		(2) What is population dynamics ?	
		(3) Significance of fertilization	
		(4) Sri Lanka Island.	
		(5) Define emigration and immigration.	
		(6) Causes of human evolution.	
	(b)	Write any three out of six:	9
		(1) Green house effect.	
		(2) CO_2 cycle.	
		(3) Javaman and Neanderthal.	
		(4) Age pyramids of population.	
		(5) Oriental region.	
		(6) Natural parthenogenesis.	
	(c)	Write any two out of five:	10
		(1) 24 Hrs chick embryo.	
		(2) Complete parthenogenesis.	
		(3) Placenta according to histological aspect.	
		(4) Structure and function of mammalian sperm	

(5) Describe culture evolution of man.