

DR-003-2016023 Seat No. _____

B. Sc. (Sem. VI) Examination

April - 2022

Zoology

(Reproductive Physiology & Embryology) (New Course)

Faculty Code : 003 Subject Code : 2016023				
Time : $2\frac{1}{2}$ Hours] [Total Marks : 70]				
nstructions: (1) Illustrate your answers with neat and labelled diagram.				
(2) Figures to right side indicate full marks of question.				
(a) Give answers of following questions:				
(1) Define fertilization.				
(2) The human ovum measures approximately in diameter.				
(3) Give the function of acrosomal enzyme.				
(4) First somite pair can be seen in hour of chick embryo.				
(b) Write any one out of two:				
(1) Write function of mammalian ovum.				
(2) Draw only diagram of 24-hour chick embryo.				
(c) Write any one out of two:				
(1) Give structure of mammalian sperm in brief.				
(2) Explain in detail gastrulation process in chick embryo.				
(d) Write any one out of two:				
(1) Explain in detail 33-hour chick embryo.				
(2) Give description of structure of mammary gland. OR-003-2016023] 1 [Contd				

2	(a)	Give answers of following questions:	4
		(1) Define placenta.	
		(2) Define regeneration.	
		(3) Which type of placenta is found in cats and dogs?	
		(4) Give the example of parthenogenesis.	
	(b)	Write any one out of two:	2
		(1) Give brief description on placentation.	
		(2) Explain natural parthenogenesis (any one example).	
	(c)	Write any one out of two:	3
		(1) Describe regeneration in salamander.	
		(2) Describe artificial parthenogenesis.	
	(d)	Write any one out of two:	5
		(1) Explain regeneration in plannaria.	
		(2) Describe types of placenta based on histological	
		structure.	
3	(a)	Give answers of following questions:	4
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		(1) Jim Corbett national park is famous for	-
		 Jim Corbett national park is famous for Give a full form of CITES 	-
		(2) Give a full form of CITES (3) Manas sanctuaries area is?	-
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	(b)	 (2) Give a full form of CITES (3) Manas sanctuaries area is? (4) Give the name of mammalian endemic species of India. Write any one out of two: 	2
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4	(a)	Give answers of following questions:	4
		(1) Make a list of air pollutants.	
		(2) What is acid rain?	
		(3) What is ecology?	
		(4) Define pollution.	
	(b)	Write any one out of two:	2
		(1) Make a brief note on H ₂ S cycle.	
		(2) Define population mortality.	
	(c)	Write any one out of two:	3
		(1) Write a note on green house effect.	
		(2) Describe population growth and natality.	
	(d)	Write any one out of two:	5
		(1) Explain water pollution.	
		(2) Explain N_2 bio geochemical cycle.	
5	(a)	Give answers of following questions:	4
		(1) Define word evolution.	
		(2) Give the scientific name of modern man.	
		(3) What is the meaning of geological period?	
		(4) Where was Cro-Magnon manfirst found ?	
	(b)	Write any one out of two:	2
		(1) Describe zoo geographical distribution.	
		(2) Explain micro evolution.	
	(c)	Write any one out of two:	3
		(1) Explain modern man.	
		(2) Describe macro evolution in detail.	
	(d)	Write any one out of two:	5
		(1) Explain geological period (any two era).	
		(2) Describe evolution of Neanderthal man.	