Shirdent Bounty.com

2008 \(\) ZOOLOGY (Optional)

प्राणिशास्त्र (वैकल्पिक)

Time: 3 hours Maximum Marks: 200

Note	
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(i)	In	all	attempt	<u>five</u>	questions.
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- (ii) Question No. 1 is compulsory.
- (iii) Of the remaining Questions, Attempt any four by selecting one question from each section.
- (iv) Numbers of optional questions upto the prescribed number in the order in which questions have been solved, will only be assessed and excess answers of the question/s will not be assessed.
- (v) Candidate should not write roll number, any names (including his/her own), signature, address or any indication of his/her identity anywhere inside the answer book otherwise he/she will be penalised.

1. Answer any four of the following:

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- (a) What is Probability? Describe the theory of Probability.
- (b) Describe the Plasmids as cloning vehicles.
- (c) Explain the structure of human eye and add a note on physiology of vision.
- (d) Give an account of life cycle of 'Fasciolahepatica', and add a note on its parasitic adaptations.
- (e) Write a note on Genome information.

SECTION - A

2. Answer the following sub-questions :

(a)	Give an account of structure and functions of Golgi-apparatus.	20
(b)	What is Darwinism? Describe the Darwin's view for Natural selection.	20

3. Answer the following sub-questions:

(a)	Give an account of the ultrastructure and functions of lysosome.	20
(b)	What is mutagenesis? Describe the mechanism of mutagenesis.	20

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SECTION - B

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		SECTION - B wer the following sub-questions: Describe the structure and biological importance of Proteins.	CHITY.	
4.	Ans	wer the following sub-questions :	Oly	
	(a)	Describe the structure and biological importance of Proteins.	20	
	(b)	Explain the different types of RNAs and their functions.	20	\
5.	Ans	wer the following sub-questions :		Į
	(a)	Describe the different types of polysaccharides and their derivatives.	20	
	(b)	Explain the translation in Protein synthesis.	20	
		SECTION - C		
6.	Ans	wer the following sub-questions :		
	(a)	Describe the thermoregulation in Homeothermic vertebrates.	10 .	
	(b)	Describe the process of oogenesis.	15	
	(c)	Discuss the diseases caused by Mosquitoes.	15	
7.	Ans	wer the following sub-questions :		
	(a)	Explain the structure and functions of human ear.	10	
	(b)	Describe the development of frog embryo upto the gastrulation.	15	
	(c)	Write an essay on Sericulture.	15	
		SECTION - D		
8.	Ans	wer the following sub-questions :		
	(a)	Write an essay on Migration in fishes.	10	
	(b)	Describe briefly the biological nomenclature of species.	10	
	(c)	Describe the food pyramids in terrestrial ecosystem.	20	
9.	Ans	wer the following sub-questions :		
	(a)	What is living fossil? Describe it with reference to Rhyncocephalia.	10	
	(b)	Give an account of classification on the basis of five kingdoms.	10	
	(c)	With the help of the diagram explain the Nitrogen cycle in nature.	20	