IFOS 2010

DP-CHA-010

19251

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Sl. No.

ZOOLOGY

Paper I

Time Allowed : Three Hours

Maximum Marks : 200

INSTRUCTIONS

Candidates should attempt questions 1 and 5 which are compulsory, and any THREE of the remaining questions selecting at least ONE question from each Section.

The number of marks carried by each question is indicated at the end of the question.

Answers must be written in ENGLISH.

Suitable diagrams may be drawn, wherever required.

(Contd.)

Section 'A'

	(a)	Status of Peripatus
	(b)	Autogamy in Paramaecium
•	(c)	Bilateral versus Radial symmetry 8
•	(d)	Cnidoblast in Hydra
	(e)	Life history of Monocystis
	(l)	Vision in cockroach
2.	(a)	Discuss the status of Parazoa. 20
	(b)	Describe the general features and life history of <i>Nereis</i> . 20
3.	(a)	Give an account of the general features and life history of <i>Taenia</i> , and its relation to man 20
	(b)	Describe torsion and detorsion in Gastropoda 20
Л		Write an account on the ways by which parental care is effected in amphibians. 20
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Section 'B'

5.	Write notes on any <i>five</i> of the following in not more than 120 words each :			
	(a) Ozone hole 8			
	(b) Sign stimuli •	8		
	(c) Acquired Immuno Deficiency Syndrome	8		
		. 8		
•	(e) Measures of central tendency	8		
	(f) Habituation	8		
	Give an elaborate account on the Project Tige Discuss the merits and demerits of this Projec	ct 40		
7.	 (a) Distinguish between seasonal and circadia rhythms. How circadian rhythm is influence by the exogenous and endogenous factors Add a note on its significance. 	ed		
	(b) Give an account on lac culture in India, ar enemics of lac insects.			
8.	(a) Describe correlation (r) and its various type Add explanatory notes on the assumption properties and computations of Pearson's between two variables.	is, ' <i>1</i>		
	 (b) What is transmission electron microscopy Discuss the basic theory, structure and func- tions of a transmission electron microscop Write on the applications of transmission electron microscopy. 	с- е.		

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