Total Pages: 2

GSM/M-20

1627

Life and Diversity of Chordates-II

Paper - I

Time allowed: 3 Hours Maximum Marks: 40

Note: Attempt five questions in all, selecting two questions from each Section-A and B. Question No. 1 is compulsory. Support your answer with neat and well labelled diagram(s) wherever necessary.

Compulsory Question

- 1. Answer the following in about 20 words each: 10×1
 - (i) Amplexusory pad
 - (ii) Spiral value
 - (iii) Gizzard
 - (iv) Jocobson's organs
 - (v) Pecten
 - (vi) Carnassial teeth
 - (vii) Seminal vesicles
 - (viii) Bastard wing
 - (ix) Diastema
 - (x) The codont dentition

SECTION-A

- 2. (a) Describe the male reproductive system of frog. 4
 - (b) Write a note on laryngo-tracheal chamber of frog. 3.5

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3.	Write short notes on the following:		
	(i)	Eye of Hemidactylus	4.5
	(ii)	Ventricle of Hemidactylus	3
4.	(i)	Describe parental care in amphibians	4.5
	(ii)	Differentiate between poisonous and	non-
		poisonous snakes	3
5.	Write short notes on the following:		
	(i)	Membranous labyrinth of frog	4.5
	(ii)	Pterosaurs	1.5
	(iii)	Therapsides	1.5
		SECTION-B	
6.	Explain the internal structure and working of heart		
	of Rat.		7.5
7.	What are feathers. Explain different types of feathers		
	in Pigeon.		7.5
8.	Write short note on the following:		
	(i)	Internal ear of Rat	4.5
	(ii)	Air sacs of Pigeon	3
9.	Write short note on the following:		
	(i)	Volant adaptations	5
	(ii)	Adaptive radiations in eutherians	2.5