## 2013

ZOOLOGY

(Major)

Paper: 2.1

## ( Animal Diversity—II )

Full Marks: 60

Time: 21/2 hours

The figures in the margin indicate full marks for the questions

1. Answer the following questions:

 $1 \times 7 = 7$ 

- (a) Give an example of luminescent tunicate.
- (b) Name the knobbed tubules found in the body of the nephridium of amphioxus.
- (c) Which frog carries eggs and tadpoles in its vocal sac?
- (d) Write the term used for winglike expansion of the skin of Draco.
- (e) Which pectoral muscle acts as depressor muscle?
- (f) In which order river dolphin is included?
- (g) Name the only poisonous lizard.

2.	Ansv	wer the following questions:	2×4=8
	(a)	How do the cephalochordates differ frovertebrates?	om
	(b)	Justify the swim bladder as hydrosta organ.	tic
	(c)	Write the structure of syrinx.	
	(d)	Give a brief note on the functions of eacher than hearing.	ear
3.	Answer any three questions:		
	(a)	What is retrogressive metamorphos Write about the phenomenon by give an example of urochordate.	is? ing 1+4=5
	(b)	Why is the heart of scoliodon a veno heart? Draw a neatly labelled diagram LS of the heart of scoliodon.	ous n of 2+3=5
	(c)	Write short notes on: 2 <sup>1</sup> / <sub>2</sub>	½+2½=5
		(i) Ampullae of Lorenzini	
		(ii) Uropygial gland	
	(d)	Give a brief note on the perch mechanism of birds with neat diagram	
	As		
	(e)	Write the affinities of marsupials.	5
A13—1500/1235 (Continued)			

**4.** (a) Describe the general structure of Balanoglossus with suitable diagram.

8+2=10

Or

- (b) Give an account of the structure of ammocoete larva with diagram. Write its significance in evolution. 7+3=10
- (c) Write an essay on the migration of fishes.

Or

- (d) Write what you know about the respiration in amphibia.
- (e) Write about the anatomical peculiarities of Sphenodon. Discuss its affinities with other vertebrates. 4+6=10

Or

chemoreceptors in mammals with suitable diagrams. 2+8=10

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