2019

ZOOLOGY

(Major)

Paper: 2.1

(Animal Diversity—II)

Full Marks: 60

Time: 3 hours

The figures in the margin indicate full marks for the questions

1. Answer the following as directed:

1×7=7

- (a) Doliolum is also called as Cyclomyria.

 (Write True or False)
- (b) The common name of Herdmania is (Fill in the blank)
 - (c) Name one fish which is a living fossil.

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- (d) Which of the following hormones is associated with metamorphosis in Amphibia?
 - (i) Thyroxine
 - (ii) Oxytocin
 - (iii) Growth hormone (Choose the correct option)
- (e) Heart of Crocodile is
 - (i) two-chambered
 - (ii) three-chambered
 - (iii) four-chambered (Choose the correct option)
- (f) Excretory product of birds is uric acid/urea/ammonia.

(Choose the correct option)

- (g) Give one example of egg-laying mammal.
- 2. Answer the following questions: 2×4=8
 - (a) Distinguish between Cycloid and Ctenoid scales of fishes (with diagrams). 1+1=2
 - (b) Mention five more advanced characters of Reptiles than Amphibia.
 - (c) Write a note on various feathers of birds.
 - (d) "Metatherians are primitive mammals." Explain it.

3.		swer any three questions from the owing: 5×3=15
	(a)	Distinguish between Lamprey and Hagfish. 2½+2½=5
	(b)	Write a note on accessory respiratory organs in fishes with its significance. 3+2=5
	(c)	Explain biting mechanism of poisonous snake with diagram. 3+2=5
	(d)	Discuss receptor organs of mammals. 5
	(e)	Write a note on perching mechanism of birds.
4.	Answer any three questions from the following: 10×3=30	
	(a)	Why is Amphioxus considered under Cephalochordates? Discuss its relation- ship with other chordates. 2+8=10
	(b)	What do you mean by migration? How do migratory birds find their routes? Discuss the different types of migration in birds. 1+2+7=10
	(c)	What is parental care? "Parental care in Amphibia is above all organisms." Justify it. 2+8=10
	(d)	What are the anatomical peculiarities of Sphenodon? Discuss it as living fossil.

4+6=10

- (e) Differentiate Monotremata from Marsupialia. Discuss the affinities of Marsupialia. 6+4=10
- (f) Mention at least ten characters of class
 Reptilia. Classify it up to orders with
 examples. 3+7=10

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