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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 questions : 1×7=7
- (a) Name one animal which is a chordate but not a vertebrate.
 - (b) Name the organ for which true coelom in Herdmania is greatly reduced.
 - (c) Name the reptilian group where ductus caroticus is present.
 - (d) Write the name of a viviparous mammal.
 - (e) Where is Pigeon's milk manufactured?

(2)

- (f) Pneumatic bone is present in which class of vertebrate?
- (g) Which type of sensitive cells of retina is responsible for vision in dim light?

2. Answer the following questions : $2 \times 4 = 8$

- (a) Write a short note on filoplumes. 2
- (b) What is retrogressive metamorphosis? What are its significances? $1 + 1 = 2$
- (c) Write two diagnostic features of order Primate. 2
- (d) What are different veins that drain blood from intestine in mammal? 2

3. Answer any *three* questions : $5 \times 3 = 15$

- (a) Describe the structure of ammocoete larva with a neat labelled diagram. $3 + 2 = 5$
- (b) What is accessory respiratory organ? What are the different types of accessory respiratory organs found in fish? $2 + 3 = 5$
- (c) Mention the affinities of Balanoglossus with Chordata. 5

(3)

- (d) Classify Amphibia up to order with examples. 5
- (e) What are the different types of air sacs? Write the significance of air sac. $2 + 3 = 5$

4. Answer any *three* questions : $10 \times 3 = 30$

- (a) Write in detail the affinities of amphioxus. 10
- (b) Explain the biting mechanism of poisonous snake with neat labelled diagram. $6 + 4 = 10$

Or

Why is Sphenodon called living fossil? Write its anatomical peculiarities. $2 + 8 = 10$

- (c) What are the different types of migration found in birds? Explain with examples. $3 + 7 = 10$
- (d) Describe the internal ear of mammal. Write its significance. $8 + 2 = 10$

Or

Write the dentition formula of rabbit. Describe the structure of a mammalian tooth with neat labelled diagram. $2 + 8 = 10$

- (e) Write the affinities of Marsupialia. 10

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