

2016

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?

- (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 : 2×4=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 : 5×3=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

(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 : 10×3=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
