

3 (Sem-2) ZOO M 1

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?

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(Turn Over)

- (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

(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
