

**2 0 1 6**

**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

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