



RF-3755-56

**M. Sc. (Sem. I & II) (Integrated Biotechnology)
Examination**

April / May – 2010

IBT- 104 / 204 : Zoology - I

Time : 3 Hours]

[Total Marks : 70

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Instructions :

(1)

नीचे दशांशिक निशानीवाणी विगतो उत्तरवही पर अवश्य लभवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="M. Sc. (Integrated Biotechnology) (Sem. 1 & 2)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="IBT- 104 / 204 : Zoology - I"/>	<input type="text"/>
Subject Code No. : <input type="text" value="3"/> <input type="text" value="7"/> <input type="text" value="5"/> <input type="text" value="5"/>	<input type="text"/>
Section No. (1, 2,.....) : <input type="text" value="1"/>	
Student's Signature	

- (2) Figures to the right indicate full marks of the question.
- (3) Draw neat and labeled diagrams whenever necessary.
- (4) Both sections must be written in **separate** answer books.

1 Define the following:- 5

- (1) Ospharadium
- (2) Flame cells
- (3) Statocysts
- (4) Ambulacral groove
- (5) Canal system.

2 Write about general characters of aves and also give its classification. 10

OR

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1

[Contd...

- 2** Elaborate the following:- **10**
- (a) Principles of classifications
 - (b) Signification of animal classification.
- 3** Classify echinoderms upto subclass level and give suitable examples of each. **10**
- OR**
- 3** Classify Pisces upto subclass level and give suitable examples of each. **10**
- 4** Write short notes on any **two**:- **10**
- (a) General characters of reptiles
 - (b) Cyclostomes
 - (c) Economic importance of Poriferans.

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Instructions :

(1)

नीचे दृष्टावेक निशानीवाणी विगतो उत्तरवडी पर अवश्य कभवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
<input type="text" value="M. Sc. (Integrated Biotechnology) (Sem. 1 & 2)"/>	<input type="text" value="Student's Signature"/>
Name of the Subject :	
<input type="text" value="IBT- 104 / 204 : Zoology - I"/>	
Subject Code No. : <input type="text" value="3"/> <input type="text" value="7"/> <input type="text" value="5"/> <input type="text" value="6"/>	Section No. (1, 2,.....) : <input type="text" value="2"/>

- (2) Figures to the right indicate full marks of the question.
- (3) Draw neat and labeled diagrams whenever necessary.
- (4) Both sections must be written in **separate** answer books.

- 1 Define the following:- 5
 - (1) Gnathostomata
 - (2) Plantigrade
 - (3) Fossorial
 - (4) Roulex
 - (5) Chordae tendinae
- 2 Give a comparative account of heart in amphibians, reptiles, aves and mammals. 10
- OR**
- 2 Elaborate on comparative anatomy of digestive system in amniotes. 10
- 3 Compare and contrast male reproductive system of amphibians and aves. 10
- OR**
- 3 Compare and contrast female reproductive system of reptiles and mammals. 10
- 4 Write short notes on any **two**:- 10
 - (a) Breeds of cows
 - (b) Sericulture practice in India
 - (c) Life cycle of *Apis indica*.