

RF-3755-56

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

April / May - 2010

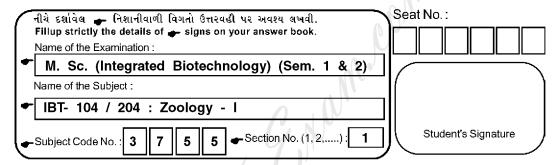
IBT- 104 / 204 : Zoology - I

Time: 3 Hours] [Total Marks: 70

RF-3755

Instructions:

(1)



- (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:-

 $\mathbf{5}$

- (1) Ospharadium
- (2) Flame cells
- (3) Statocysts
- (4) Ambulacral groove
- (5) Canal system.
- 2 Write about general characters of aves and also give 10 its classification.

OR

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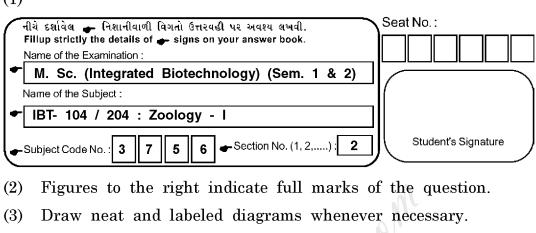
| 2 | Elaborate the following:- | | | | | |
|---|--|----|--|--|--|--|
| | (a) Principles of classifications | | | | | |
| | (b) Signification of animal classification. | | | | | |
| 3 | Classify echinoderms upto subclass level and give suitable examples of each. | 10 | | | | |
| | \mathbf{OR} | | | | | |
| 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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RF-3755-56] 2 [Contd...

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(1)



- Both sections must be written in separate answer books. (4)
- 1 Define the following:-5 (1) Gnathostomata (2) Plantigrade Fossorial (3) **(4)** Roulex Chordae tendinae (5)2 Give a comparative account of heart in amphibians, 10 reptiles, aves and mammals. OR 2 Elaborate on comparative anatomy of digestive system 10 in amniotes.

3 Compare and contrast male reproductive system of 10 amphibians and aves.

OR 10 $\mathbf{3}$ Compare and contrast female reproductive system of reptiles and mammals.

4 Write short notes on any two:-10

- Breeds of cows (a)
- (b) Sericulture practice in India
- Life cycle of Apis indica. (c)

RF-3755-56] 3 [500]