

**B. N. Bandodkar College of Science, Thane**  
**Second Semester End Examination March-2015**  
**F. Y. B. Sc.**  
**USZO201**

Duration: 2 ½ hrs

Total Marks: 75

- N. B. :
- 1) All questions are compulsory
  - 2) Figures to right indicate full marks.
  - 3) Draw neat and labelled diagrams wherever necessary

**Q.1. A) Answer the following:**

- |   |   |
|---|---|
| i) What are the functions of radula and Aristotle's lantern?    | 2 |
| <b>OR</b>   |   |
| i) Write the names of larvae found in Mollusca and Hemichordata | 2 |
| ii) Differentiate between Agnatha and Gnathostomata.            | 3 |
| <b>OR</b>   |   |
| ii) Differentiate between Cartilaginous fishes and bony fishes. | 3 |

**B) Describe in short:**

- |   |   |
|---|---|
| iii) Bat and Kangaroo                   | 8 |
| <b>OR</b>                               |   |
| iii) Salamander and Ichthyophis         | 8 |
| iv) Salient features of class Aves      | 7 |
| <b>OR</b>                               |   |
| iv) Amphioxus as Cephalochordate animal | 7 |

**Q.2. A) Answer the following:**

- |  |   |
|--|---|
| i) Define :- Fertilization                               | 2 |
| <b>OR</b>  |   |
| i) Define:- Excretion                                    | 2 |
| ii) Draw the neat labeled diagram of Flame cell.         | 3 |
| <b>OR</b>  |   |
| ii) Give classification of neuron based on its function. | 3 |

<b>B) Describe</b>		
iii) Describe three principal nitrogenous excretory products in detail.		8
<b>OR</b>		
iii) What is synapse? Describe its types with diagrams in detail.		8
iv) Describe structure of neuron with neat labeled diagram in detail.		7
<b>OR</b>		
iv) Describe oogenesis in detail.		7
<b>Q.3. A) Define</b>		
i) Primary song		2
<b>OR</b>		
i) Altricial embryo		2
ii) Equifinality		3
<b>OR</b>		
ii) IRM		3
<b>B) Describe:</b>		
iii) Classical conditioning of dog		8
<b>OR</b>		
iii) Warning and freezing postures		8
iv) Representation		7
<b>OR</b>		
iv) Filial and sexual imprinting		7
<b>Q.4. Write short notes on ( any three)</b>		
i) Chameleon		5
ii) Subphylum Urochordata		5
iii) Nerve fibres		5
iv) Types of Fertilization		5
v) Theory of Epigenesis		5
vi) Maturation and behavioural changes		5

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