

**B. N. Bandodkar College of Science, Thane**  
**Semester End Examination 2014-15**  
**Semester IV**  
**USZO401**

Duration: 2.5hrs

Total marks: 75

N.B.:

2. All questions are compulsory.
  3. Figures to the right indicate marks.
  4. Draw neat and labeled diagrams wherever necessary.
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Q. 1 A) Answer the following.

a. Give any two names of egg laying mammals. (02)

OR

a. Give names of nests of fishes.

b. What are marsupials? (03)

OR

b. Write down the significance of neoteny?

Q. 1 B) Write short note.

a. Adaptation in lizards. (08)

OR

a. Metamorphosis in Ascidian tadpole larva.

(08)

b. Structures of swim bladder and its types. (07)

OR

b. Parental care in amphibians.

Q. 2 A) Answer the following.

a. Define rotational and lateral diffusion. (02)

OR

a. Define Euchromatin and Heterochromatin.

b. Properties of transport proteins. (03)

OR

b. Describe Eukaryotic cell.

Q. 2 B) Write short note.

a. Phagocytosis. (08)

OR

a. Lysosomes and its types.

b. Nuclear pore & pore complex. (07)

OR

b. Membrane Transport.

Q. 3 A) Answer the following.

a. Define chemical and sound signal. (02)

OR

a. Define Imprinting and learning.

b. Honest signals. (03)

OR

b. Luciferin.

(P. T. O.)

**Q. 3 B) Write short note.**

a. Functional aspect of displacement activities.

(08)

**OR**

a. Sound signals.

b. Language development in primates

(07)

**OR**

b. Deceitful signal

(15)

**Q. 4 Write short note (Any 3)**

a. Functions of swim bladder.

b. Nature of Venom.

c. Exocytosis.

d. Functions of SER.

e. Causes of displacement activities.

f. Honey bee dance.

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