

**Q.P. Code : 00033**

**[Time: Three Hours]**

**[ Marks:100]**

Please check whether you have got the right question paper.

- N.B:
1. All questions are compulsory
  2. All questions carry equal marks.
  3. Draw neat and labelled diagrams wherever necessary.

**Q. 1**

**(A) Fill in the blanks by choosing the correct option given in the bracket. (05)**

- a) In Tilapia \_\_\_\_\_ exhibit parental care.  
( male, female, male and female both)
- b) \_\_\_\_\_ is a typical desert animal.  
(lizard, snake, Phyranosoma)
- c) Madhumalai wild life sanctuary is located in \_\_\_\_\_.  
(Kerala, Karnataka, Tamil nadu)
- d) Anna Hazare was awarded the \_\_\_\_\_ prize.  
(Nobel, Magsaysay, Padma Bhushan)
- e) \_\_\_\_\_ is the largest biotech company In Asia.  
(BIOCON, AMUL, DHARA)

**(B) Match the column I and II and rewrite**

- | I               | II                |
|-----------------|-------------------|
| a) Wall lizard  | i) Poppy plant    |
| b) Morphine     | ii) Autonomy      |
| c) Digoxin      | iii) Surimi       |
| d) Baba Amte    | iv) Heart Problem |
| e) Deepak Gadre | v) Hemalkasa      |

State whether **True** or **False** .

- (C) a)Camel is a desert reptile. (05)**
- b) Pearl is formed by secretion of mantle tissue.
  - c) Firefly is a carnivorous beetle.
  - d) Malabar Gaint squirrel is endemic to Indo Burma hot spot.
  - e) Amul ice cream was launched by Kiran Muzumdar shaw.

**(D) Answer in one sentence only.**

- a) Name any two types of coral reefs.
- b) Give one desert adaptation.
- c) Give full form of UNEP.
- d) Define hot spot.
- e) Name any two surimi based fish products.

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**Q. 2 (A)** Describe mechanism of bioluminescence with suitable examples.

**OR**

**(A)** Explain the types of migration in birds. **(10)**

**(B)** Write short notes on **(any two)**

- Regeneration in lizard.
- Echolocation in Cetaceans.
- Brood parasitism.
- Batesian mimicry.

**(10)**

**Q. 3 (A)** Describe various methods used in Ex-situ conservation of biodiversity

**OR**

**(A)** Give a detailed account of threats to biodiversity **(10)**

**Q. 3 (B)** Write short notes on **any two**.

- Ecosystem diversity
- Effect of habitat loss
- Economic significance of biodiversity
- NBAP

**Q. 4** Answer **any two** of the following

- Give a detailed account of contribution of Dr Salim Ali in the field of ornithology.
- Describe the water conservation work done by Anna Hazare in Ralegan Siddhi.
- Give an account of work done and achievements of Dr Varghese Kurian.
- Describe the role of Kiran Muzumdar Shaw in developing BIOCON.

**(20)**

**Q. 5** Write short notes on **(any four)**

- Parental care in Platypus.
- Pearl Formation.
- Medicinal uses of biodiversity.
- Biosphere reserve.
- Work done by Hargobind Kharana.
- Lok Biradari Prakalp.

**(20)**