

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

(05)

- | 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.
 - 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.

(05)

(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.

(05)

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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)**

- a) Regeneration in lizard.
- b) Echolocation in Cetaceans.
- c) Brood parasitism.
- d) 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**.

- a) Ecosystem diversity
- b) Effect of habitat loss
- c) Economic significance of biodiversity
- d) NBAP

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

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

(20)

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

- a) Parental care in Platypus.
- b) Pearl Formation.
- c) Medicinal uses of biodiversity.
- d) Biosphere reserve.
- e) Work done by Hargobind Kharana.
- f) Lok Biradari Prakalp.

(20)