

Date: 21.11.2019

Time: (3 Hours)

Total Marks: 100

- N.B.
- (1) All questions are compulsory.
 - (2) Figures to the right indicate marks for respective sub questions.
 - (3) Draw **neat labeled diagrams** wherever **necessary**.
- Q.1. A) Fill in the blanks by choosing appropriate option from the following. (05)
- a) Brood pouch found in animal.
a) Hippocampus b) Midwife toad c) Darwins's frog d) Tilapia
 - b) Migration between north to south and vice-versa called as.....
a) Latitudinal b) Longitudinal c) Altitudinal d) All of the above
 - c) Species richness refers to
a) Total number of species in a community b) Total number of individuals per species c) Distribution of species in a community d) Dispersion of individuals in a population
 - d) bison sanctuary is the nearest well-known sanctuary for Sindhudurg.
a) Amboli b) Dajipur c) Bondla d) Sawantwadi
 - e) is called as Birdman of India
a) Rajendra Singh b) Dr. Salim Ali c) Bana Amte d) Anna Hazare
- B) Match the following (05)
- | Column 'A' | Column 'B' |
|-------------------------|-----------------------|
| a) Biodiversity Hotspot | a) Ozone depletion |
| b) Global warming | b) Endemic species |
| c) Egg laying mammal | c) Phrynosoma |
| d) Desert reptile | d) Tarun Bharat Sangh |
| e) Rajendra Singh | e) Platypus |
- C) Write whether **True** or **False**. (05)
- a) Autotomy behavior is found in snake.
 - b) Guppy is a mouth brooder
 - c) Cryopreservation is a measure of *ex situ* conservation.
 - d) Migration of elephants in Sindhudurg district from Karnataka is due to habitat loss.
 - e) Dr. Varghese Kurian is honoured as Father of White Revolution

D) Answer the following in one sentence. (05)

- a) Nomadic migration
- b) Define Patch reef
- c) Give long form of IUCN
- d) Define *in situ* conservation
- e) Give long form of MSS

Q.2. Answer **Any Two** of the following. (20)

- a) Describe the echolocation in Dolphins and Whales.
- b) Describe the parental care and breeding in Pisces and Amphibia.
- c) Describe the factors inducing migration in birds.
- d) Define Adaptation? Explain the Camel adaptation to desert environment.

Q.3. Answer **Any Two** of the following. (20)

- a) Give an account of types of biodiversity
- b) Describe Amboli as biodiversity Hotspot
- c) Threats to biodiversity
- d) National Park and Sanctuary

Q.4. Answer **Any Two** of the following. (20)

- a) Give the detailed account on Amul white revolution.
- b) Describe the work of water conservation by Anna Hazare.
- c) Give the detailed account on the contribution made by Dr. Salim Ali in the field of Ornithology.
- d) Give the detailed account of Dr. Hargobind Khorana.

Q.5. Write Short notes on **Any Four** of the following. (20)

- a) Needs of migration in birds
- b) Describe briefly the formation of corals.
- c) National Biodiversity Action Plan [NBAP]
- d) Direct use values of biodiversity
- e) Work and Achievement of Rajendra Singh
- f) Work and Achievement of Baba Amte.
