

(3 Hours)

Marks: 100

N.B.: (1) All questions are **compulsory**.

(2) **Figures** to the right indicate full **marks**.

(3) Draw neat, labelled diagrams wherever **necessary**.

Q.1. (A) Fill in the blanks by choosing the correct options from the given brackets: 05

(a) _____ is the State animal of Maharashtra.
(Leopard, Giant Malabar Squirrel, Indian Bustard)

(b) The study of animal behaviour is called as _____.
(Ethology, Etiology, Epigenesis)

(c) Bubble nest building is a special feature of _____ fish.
(Gold fish, Siamese fighter, Angel)

(d) _____ is a reptile with elongated snout.
(Chameleon, Python, Gharial)

(e) _____ Is a type of protein in milk.
(Lactose, Cassein, Albumin)

(B) Match column I with column II and rewrite. 05

I

II

- | | |
|---------------------------|---------------------------------|
| (a) Blue Mormon butterfly | (i) Tropical jungle of Malaysia |
| (b) Wallace's flying frog | (ii) Instinctive behaviour |
| (c) CNC | (iii) Maharashtra State |
| (d) Innate behaviour | (iv) Patellar luxation |
| (e) Chihuahua | (v) Tadoba |

(C) State whether true or false. 05

- Sambhar deer is the fastest running animal.
- Communication by facial expressions and body postures is exhibited by gorillas.
- Schooling instincts are brought about through organs called lateral line organs.
- The Bettas are ornamental fish which require dirty and cold water.
- The Labrador Retriever breed has its origin in Great Britain.

(D) Answer in one sentence. 05

- Name the largest moth.
- Which is the state bird of Maharashtra?
- Define a courtship ritual.
- What is meant by social behaviour?
- Which is the causative agent of fin rot in ornamental fishes?

- Q.2. (A) Answer **any one** of the following; 10
- Describe the behaviour of octopus and spider as the most dedicated mothers in the world.
 - Describe the special characters of sperm whale that help them feed on squids.
- (B) Answer **any two** of the following; 10
- Discuss the remarkable characters of Blue Mormon butterfly.
 - Describe the special features that make mud skipper an amazing animal.
 - Enlist and describe the amazing features of the Kingfisher.
 - Enumerate the amazing striking features of Komodo dragon.
- Q.3. (A) Answer **any one** of the following; 10
- Describe in brief the different modes of animal communications.
 - Discuss the in-situ conservation strategies.
- (B) Answer **any two** of the following; 10
- Briefly describe defensive behaviour in octopus.
 - Discuss the social behavioural aspects in elephants.
 - Explain schooling behaviour in fishes.
 - Enumerate the objectives of the snow leopard conservancy India trust (SNLCIT).
- Q.4. (A) Answer **any one** of the following; 10
- Write a detailed note on care and breeding behaviour of Siamese fighter fish.
 - Give a description on different aspects of Labrador Retriever dog breed.
- (B) Answer **any two** of the following. 10
- Write a brief note on fin and tail rot disease of ornamental fish.
 - Briefly explain the need for vaccination and health care of pet dogs.
 - Discuss the nutrition aspect and general care of pet cats.
 - Write a note on advantages of vermiculture.
- Q.5 Write short notes on **any four** of the following; 20
- Pebble toad,
 - Drongo,
 - Predatory behaviour in lion,
 - Tactile communication,
 - Cheese
 - Milk powder
