

(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

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

(D) Answer in one sentence. 05

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

- Q.2. (A) Answer **any one** of the following; 10
- (a) Describe the behaviour of octopus and spider as the most dedicated mothers in the world.
 - (b) Describe the special characters of sperm whale that help them feed on squids.

- (B) Answer **any two** of the following; 10
- (a) Discuss the remarkable characters of Blue Mormon butterfly.
 - (b) Describe the special features that make mud skipper an amazing animal.
 - (c) Enlist and describe the amazing features of the Kingfisher.
 - (d) Enumerate the amazing striking features of Komodo dragon.

- Q.3. (A) Answer **any one** of the following; 10
- (a) Describe in brief the different modes of animal communications.
 - (b) Discuss the in-situ conservation strategies.

- (B) Answer **any two** of the following; 10
- (a) Briefly describe defensive behaviour in octopus.
 - (b) Discuss the social behavioural aspects in elephants.
 - (c) Explain schooling behaviour in fishes.
 - (d) Enumerate the objectives of the snow leopard conservancy India trust (SNLCIT).

- Q.4. (A) Answer **anyone** of the following; 10
- (a) Write a detailed note on care and breeding behaviour of Siamese fighter fish.
 - (b) Give a description on different aspects of Labrador Retriever dog breed.

- (B) Answer **any two** of the following. 10
- (a) Write a brief note on fin and tail rot disease of ornamental fish.
 - (b) Briefly explain the need for vaccination and health care of pet dogs.
 - (c) Discuss the nutrition aspect and general care of pet cats.
 - (d) Write a note on advantages of vermiculture.

- Q.5 Write short notes on **any four** of the following; 20

- (a) Pebble toad,
- (b) Drongo,
- (c) Predatory behaviour in lion,
- (d) Tactile communication,
- (e) Cheese
- (f) Milk powder
