

(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) *Papilio polymnestor* is commonly known as _____ butterfly.
 (Southern Birdwing, Blue Mormon, Striped tiger)
- (b) Birds are commonly called as _____.
 (quadripeds, rodents, bipeds)
- (c) A stereotype specific chain of activities triggered by a particular environmental stimulus is called as _____.
 (IRM, FAP, Learning)
- (d) The elephant herd is led by the oldest and often largest female in the herd called a _____.
 (Matriarch, Patriarch, Queen)
- (e) _____ is a type of protein in milk.
 (Lactose, Cassein, Albumin)

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

I	II
(a) <i>Danaus genutia</i>	(i) European Greylag goose
(b) Wallace's flying frog	(ii) Kenya
(c) <i>Anser anser</i>	(iii) Common tiger
(d) Masai Mara Wildlife Conservancy	(iv) <i>Betta splendens</i>
(e) Siamese fighting fish	(v) Paracheete frog

(C) State whether true or false. 05

- (a) Fan throated lizard possess a thin flap of skin called gular appendage.
 (b) Some birds are active during twilight hours and are called as crepuscular. .
 (c) Snow leopard is the state animal of Jammu and Kashmir.
 (d) Lewa Wildlife Conservancy is a UNESCO world heritage.
 (e) Vaccine for feline leukaemia virus is a core vaccine.

(D) Answer in one sentence. 05

- (a) Which is the habitat of the Malabar Giant squirrel?
 (b) Why is the blood of Octopus blue?
 (c) Define, 'Ethology'.
 (d) What is Innate Releasing Mechanism (IRM)?
 (e) Name a dog breed of Indian origin.

Q.2. (A) Answer **any one** of the following; 10

- (a) Give a brief account of homing in Pacific Salmon.
- (b) Describe the marvellous characters of Mantis shrimp.

(B) Answer **any two** of the following; 10

- (a) Discuss the remarkable characters of mudskipper.
- (b) Write a brief note on Drongo.
- (c) Explain the amazing characters of Greta White Pelican.
- (d) Describe the psychedelic Gecko.

Q.3. (A) Answer **any one** of the following; 10

- (a) Explain in detail the use of chemical signals in animal communication.
- (b) Describe in brief the ex-situ conservation strategies.

(B) Answer **any two** of the following; 10

- (a) Explain territorial behaviour of tiger.
- (b) Differentiate between innate behaviour and learning.
- (c) Write short note biodiversity hotspots.
- (d) Briefly describe Community based Nature Conservancy (CNC) in India.

Q.4. (A) Answer **any one** of the following; 10

- (a) Describe the management of fin and tail disease in ornamental fishes.
- (b) Discuss the different methods used for vermicomposting.

(B) Answer **any two** of the following. 10

- (a) Describe care and breeding behaviour of Gold 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) Discuss the composition of milk.

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

- (a) Striped tiger butterfly,
- (b) Cheetah,
- (c) Restoration ecology,
- (d) Snow leopard conserve in India,
- (e) Dropsy and its control in ornamental fish,
- (f) Advantages of vermiculture.
