

- NB : (1) **All** questions are **compulsory**.
 (2) **Figures** to the **right** indicate full **marks**.
 (3) Draw neat, labelled diagrams wherever necessary.

1. (A) Fill in the blanks by choosing the correct option :- 05
- (a) Great white pelican feeds on _____
 a. fish and small invertebrates.
 b. fruits and nuts.
 c. herbs and nector.
- (b) Ears of Malabar Giant Squirrel are _____
 a. long and pointed
 b. short and round
 c. long and tapering
- (c) The branch of biology that deals with the study of animal behaviour is known as _____
 a. Sociology b. Ethology c. Entomology
- (d) Water forms the major part of milk and ranges from _____
 a. 80% - 90% b. 10% - 20% c. 60% - 75%
- (e) Centipedes and red ants _____ the cocoons of earthworms.
 a. protects b. damage c. nourish

- (B) Match the columns I and II and rewrite. 05

I	II
(a) African dwarf sawshark	(i) Co operative hunting strategies
(b) Flying fish	(ii) Indian dog breed
(c) Lions	(iii) Long hair coat, calm personality
(d) Mudhol Hound	(iv) Long tooth studded snout
(e) Persian cat	(v) Pectoral fin for gliding

- (C) State whether true or false 05

- (a) Lesser flemingoes live in large flocks.
 (b) Bright colouration of straberry poison frog is used as warning.
 (c) Tigers exhibit territorial behaviour.
 (d) Excessive moisture and poor aeration are beneficial for vermicomposting.
 (e) The product obtained from milk by removal of water and fats is called as 'Whole milk'

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- (D) Answer in one sentence. **05**
- (a) Name the fish which can walk on mudflat using its pectoral fin.
 - (b) Name the state butterfly of Maharashtra.
 - (c) Give one example of wild life conservancy in Kenya.
 - (d) Give one example of fish showing schooling behaviour.
 - (e) What is the suitable pH range for survival of earthworms ?
2. (A) Describe the mechanism of deep sea diving in sperm whales. **10**
- OR**
- (A) Describe Cheetah and Malabar Giant Squirrel. **10**
2. (B) Describe **any two** of the following. **10**
- (a) Striped tiger butterfly
 - (b) Fan throated Lizard
 - (c) Michael Jackson monkey
 - (d) Kingfisher as feathered biped
3. (A) Describe Snow leopard conservancy in India. **10**
- OR**
- (A) Differentiate between innate behaviour and learning. **10**
3. (B) Explain **any two** of the following. **10**
- (a) Defensive behaviour in Octopus
 - (b) HIPPCO
 - (c) Aggressive behaviour in gorilla
 - (d) Communication using sound signals.
4. (A) Describe the role of dairy development in rural economy of India. **10**
- OR**
- (A) Describe the management of dropsy and white spot disease in ornamental fishes. **10**
4. (B) Explain **any two** of the following. **10**
- (a) Labrador
 - (b) Harvesting in vermicomposting
 - (c) Curd and yogurt
 - (d) Breeding behaviour of Oscar fish

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5. Write short notes on **any four** of the following :

- (a) Gharial
- (b) Spatuletail hummingbird
- (c) Social behaviour in elephants
- (d) Extinction crisis
- (e) Paneer
- (f) Siamese cat

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