

D

64074

## 1S00143/79549 ZOOLOGY: PAPER III

(3 Hours)

QP CODE:  
Marks: 100

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

**ANSWER KEY**

- Q.1. (A) Fill in the blanks by choosing the correct options from the given brackets: 05
- (a) 15 %  
 (b) Spider  
 (c) Lifespan  
 (d) Pindi  
 (e) 15-20°C
- (B) (a) → (iv); (b) → (i); (c) → (ii); (d) → (v); (e) → (iii) 05
- (C) State whether true or false. 05
- (a) True.  
 (b) False.  
 (c) True.  
 (d) False.  
 (e) True.
- (D) Answer in one sentence. 05
- (a) What is matiphagy?  
 Answer: Matiphagy: A phenomenon in which a desert spider feeds herself to her young shortly after they are hatched.
- (b) What is Ethology?  
 Answer: Ethology: Study of animal behavior.
- (c) What is 'Schooling' with respect to fishes?  
 Answer: Schooling in fish: Movement of fish species in the environment in a cohesive and coordinated manner forming groups.
- (d) Name the methods of harvesting earthworms.  
 Answer: Methods of harvesting earthworms: Three methods-manual method, migration method and mechanical method.
- (e) Define Paneer.  
 Answer: Paneer: It is an acidic, heat coagulated indigenous milk product.

2

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

(a) Describe amazing aspects of the Matilda Viper and Michael Jackson monkey.

Answer: (i) Introduction to both animals 02  
(ii) Amazing aspects of both animals 08

(b) Give a detailed account on natural history of Strawberry Poison frog and Komodo dragon.

Answer: (i) Introduction to both the animals 02  
(ii) Natural history of Strawberry Poison frog; description 04  
(iii) Natural history of Komodo dragon; description 04

(B) Answer any two of the following; 10

(a) Joker crab as incredible animal.

Answer: (i) Introduction 01  
(ii) Incredible aspects 04

(b) Special abilities of Mantis Shrimps.

Answer: (i) Introduction 01  
(ii) Description of the fastest punch 04

(c) Amazing aspects of Octopus.

Answer: (i) Introduction 01  
(ii) Amazing aspects 04

(d) Mechanism of deep sea diving in Sperm whale.

Answer: (i) Introduction 01  
(ii) Mechanism of deep sea diving 04

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

(a) What is social behavior? Give a detailed account of social behavior in Elephants?

Answer: (i) Introduction 02  
(ii) Type of Social behavior in elephants explanation 04  
(iii) Role in hierarchy and significance 04

(b) Give a detailed account on Community-based Nature Conservation (CNC) in Tadoba.

Answer: (i) Introduction 02

3

	(ii)	Role of community in Nature Conservation	04
	(iii)	Explanation of CNC at Tadoba and its significance	04
(B)		Answer any two of the following;	10
	(a)	Visual types of communication.	
Answer:	(i)	Introduction	01
	(ii)	Visual communication explanation with illustration	04
	(b)	HIPPCO.	
Answer:	(i)	Introduction to NGO's in nature conservation, Full form of HIPPCO	01
	(ii)	Role and work carried out by HIPPCO	04
	(c)	Nature versus nurture controversy.	
Answer:	(i)	Introduction	01
	(ii)	Explanation with illustration	04
	(d)	Territorial behavior in tiger.	
Answer:	(i)	Introduction to territorial behavior	01
	(ii)	Explanation of territorial behavior of tiger and significance	04
Q.4.	(A)	Answer anyone of the following;	10
	(a)	Give an account on management of common diseases of ornamental fishes.	
Answer:	(i)	Diseases to be described: Fin and Tail rot disease, Dropsy, White spot Disease	04
	(ii)	Management of above mentioned diseases of ornamental fishes	06
	(b)	Describe the role of dairy development in rural economy.	
Answer:	(i)	Introduction	04
	(ii)	Description	06
(B)		Answer any two of the following.	10
	(a)	Composition of milk.	
Answer:	(i)	Introduction	01
	(ii)	Description on contents of milk	04
	(b)	Advantages of vermiculture and vermicomposting.	
Answer:	(i)	Advantages of vermiculture	2.5

4

	(ii) Advantages of vermicomposting	2.5
	(c) Cat breed – Persian cat.	
Answer:	(i) Introduction	02
	(ii) Description	03
	(d) Different species of earthworm used in vermiculture.	
Answer:	(i) Introduction	01
	(ii) Description on different species of earthworm	04
Q.5	Write short notes on any four of the following;	20
	(a) Homing in Pacific Salmon	
Answer:	(i) Introduction	01
	(ii) Description of behavior	04
	(b) Natural history of Malabar Giant squirrel	
Answer:	(i) Introduction	01
	(ii) Natural history	04
	(c) Tactile communication	
Answer:	(i) Introduction	01
	(ii) Explanation with illustration of tactile communication in animals	04
	(d) Ex situ conservation strategies	
Answer:	(i) Introduction	01
	(ii) Explanation of Ex-situ conservation with illustration and its role and significance	04
	(e) Milk product – Cheese.	
Answer:	(i) Description	02
	(ii) General process of making cheese	03
	(f) Vaccination and care of pet dogs	
Answer:	(i) Care of pet dogs	02
	(ii) Vaccination of pet dogs	03