

UPSC Mains 2025 Aug 31, 2025 Zoology (Paper 1) Question Paper and Answer Key PDF

Q. No.	Question	Check Solution
Q1 (A)	Write short notes in 150 words: Metagenesis	<a href="#">Check Solution</a>
Q1 (B)	Write short notes in 150 words: Book lungs	<a href="#">Check Solution</a>
Q1 (C)	Write short notes in 150 words: Paedomorphosis	<a href="#">Check Solution</a>
Q1 (D)	Write short notes in 150 words: Torsion and detorsion in gastropods	<a href="#">Check Solution</a>
Q1 (E)	Write short notes in 150 words: Draw a well-labelled diagram of human eye and write its functions.	<a href="#">Check Solution</a>
Q2 (A)	Describe the comparative anatomy of digestive system in vertebrates.	<a href="#">Check Solution</a>
Q2 (B)	Give an illustrated account of reproduction in sponges.	<a href="#">Check Solution</a>
Q2 (C)	Describe the general features, distribution and social organization in termites.	<a href="#">Check Solution</a>
Q3 (A)	Describe the mechanism of parental care in amphibians with suitable examples.	<a href="#">Check Solution</a>
Q3 (B)	Describe the different stages of life cycle of Pheretima with the help of suitable diagrams.	<a href="#">Check Solution</a>
Q3 (C)	Discuss the various modes of nutrition in protozoa.	<a href="#">Check Solution</a>
Q4 (A)	Draw a well-labelled diagram of testis and ovary in mammals, and discuss the functions of their hormones.	<a href="#">Check Solution</a>
Q4 (B)	Give an illustrated account of skull types in reptiles.	<a href="#">Check Solution</a>
Q4 (C)	Explain the types and significance of migration in fishes.	<a href="#">Check Solution</a>
Q5 (A)	Write short notes in 150 words: Biodiversity hot spots	<a href="#">Check Solution</a>
Q5 (B)	Write short notes in 150 words: Navigation in birds	<a href="#">Check Solution</a>
Q5 (C)	Write short notes in 150 words: Sickle cell anaemia	<a href="#">Check Solution</a>
Q5 (D)	Write short notes in 150 words: Circadian rhythms	<a href="#">Check Solution</a>
Q5 (E)	Write short notes in 150 words: Biome	<a href="#">Check Solution</a>
Q6 (A)	Define air pollution. Explain the types, sources, consequences and control measures of air pollution.	<a href="#">Check Solution</a>
Q6 (B)	Define pheromones. Discuss the role of pheromones in alarm spreading in animals with suitable examples.	<a href="#">Check Solution</a>
Q6 (C)	What is DNA fingerprinting? Explain the mechanism and applications of DNA fingerprinting in forensic science.	<a href="#">Check Solution</a>
Q7 (A)	What is Student's t-test and its significance in biological research? Write the formula of t-test and its various steps using simple data.	<a href="#">Check Solution</a>
Q7 (B)	Explain the principle, instrumentation and applications of fluorescence microscope.	<a href="#">Check Solution</a>
Q7 (C)	Describe the different species suitable for prawn culture with emphasis on the methods of prawn cultivation.	<a href="#">Check Solution</a>

Q8 (A)	What do you mean by infectious and communicable diseases? Mention the causative agent and means of spread of filaria. Also describe the symptoms, diagnosis, treatment and preventive measures of filaria.	<a href="#">Check Solution</a>
Q8 (B)	Give an illustrated account of carbon cycle with suitable diagram.	<a href="#">Check Solution</a>
Q8 (C)	Describe the phenomenon of sexual conflict and selfishness in studying animal behaviour with suitable examples.	<a href="#">Check Solution</a>