Rekha V.V.I. Questions for 2023 Examination

Answer of below mentioned V.V.I. questions are present in your Rekha Examination Guide and Guess Part-I Zoology-1

GROUP-A

(Animal Diversity - I)

	(A miniar Diversity - 1)	
1.	Describe the different modes of reproduction in Protozoa.	 7
2.	Give an account of various modes of nutrition in Protozoa. V.V.I.	 11
3.	Describe structure, locomotion and nutrition in Paramecium.	 14
4.	Describe Asexual and Sexual reproduction in Paramecium.	 17
5.	Give an outline classification of the Phyllum Protozoa with	
	characters and examples of each class and order.	 20
6.	Describe the life-history of Trypanosoma. How does it cause	
	disease in man? What methods would you employ to prevent	
	the spread of disease?	
	Or, Describe the structure and life-history of Trypanosoma.	 25
7.	Describe the morphology and life cycle of the parasite which	
	causes Amoebic dysentery. V.V.I.	
	Or, Give an account of the life-history, morphology,	
	bionomics and the economic importance of Entamoeba.	 28
8.	Classify phylum Porifera upto orders giving diagnostic	
	features and suitable examples. V.V.I.	 31
9.	Give an account of affinities of Sponges.	 35
10.	Describe different types of canal system of Sponges. V.V.I.	 36
11.	What is Metagenesis? Explain it with reference to the life	
	cycle of Obelia.	
	Or, Give an illustrated account of the life-history of Obelia	
	Or, What do you understand by alternation of generation in animals?	
	Explain it with reference to the life-history of Obelia.	 38
12.	What is Polymorphism? Explain it with the reference to the	
	structure of Obelia.	 39
13.	Describe the structure and affinities of Ctenophora.	 44
14.	Give general characters of Platyhelminthes and classify upto	
	order with examples. V.V.I.	 49
15.	Describe the structure and life-history of Taenia solium. V.V.I.	 51
16.	Describe the life-cycle, pathogenic effects and control of Ascaris.	 55
17.	Describe the structure of Ascaris.	 57
18.	Describe the structure and life cycle of Wucherria or Filaria worm.	 59
19.	Give general characters of Phyllum Annelida and classify	
•	upto order with examples.	 61
20.	Describe the haemocoelomic system of Annelida.	
	Or, What is Coelom? Give an illustrated account of the	
	haemocoelomic system in Leech. V.V.I.	 64

====== +80% EXAM. QUESTIONS COMES FROM REKHA EXAMINATION GUIDE =========			
21.	Give an account of the nephridial system in Leech (Annelida).		
	Or, Describe the excretory system of Leech (Annelida).		67
22.	Classify Mollusca upto order with characters and examples.		
	Or, Classify Mollusca mentioning the distinctive features		
	and examples of the different classes.		70
23.	Write an essay on the torsion and detorsion in Gastropoda. V.V.I.		73
24.	Write short note on Pearl formation.		77
25.			77
26.	•		80
	GROUP-B		
	(Environmental Biology and Animal Behaviour)		
1.	What do you mean by limiting factors? Explain Liebig's law		
-	of minimum with suitable examples. V.V.I.		82
2.	Describe energy flow through an ecosystem studied by you		
_	with reference to laws of thermodynamics. V.V.I.		83
3.	Define the term ecosystem. Describe in detail the component		~ ~
	of a fresh water ecosystem.		85
4.	Give an account of the structure and function of a typical		
_	ecosystem.		86
5.	Define food chain. Illustrate it with reference to a freshwater lake.		89
6.	Describe various types of food chains. V.V.I.		91
7.	What is food web? Give its main characteristics in the ecosystem.		92
8.	Give various steps of transfer of energy in an ecosystem.		
ō	What conclusions you can derive from the transfer of energy.		93
9.	What are ecological pyramids? Discuss different kinds of		~ .
10	ecological pyramids.		94
10.	Define biodiversity and species diversity. Explain the		~ -
	measures of species diversity. V.V.I.		97
11.	Define the term wildlife and give an account of the present		0.0
10	status of wildlife in India. V.V.I.		98
12.	Ĩ		00
12	Comment upon the methods of its conservation.		99
13.	Write an essay on wildlife conservation in India.		
	Or , Define the term conservation. Give an account of the		
	administrative and legislative measures undertaken for		102
14	conservation of wild life. V.V.I.		102
14.	Define Toxicology. Give an outline of different types of		106
15	toxicants and their nature.		106
15.	Write an essay on 'Ethology and its methods'.		107
16.	What is learning? Describe different types of learning behaviour with the help of witchle examples VVI		110
	behaviour with the help of suitable examples. V.V.I.		110

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17.	What do you understand by animal behaviour? Throw light on the significance of the study of animal behaviour.		114
18.	Discuss psychological, neurophysiological and ethological		114
19.	approaches in the study of animal behaviour. Discuss ecological, physiological and evolutionary		114
	approaches of animal behaviour.		115
20.	Define innate or instinctive behaviour and explain it with		110
21.	the help of suitable examples. Describe various forms of instinctive or innate behaviour.		118 120
	What do you understand by learned behaviour? Why are		
	they more developed among vertebrates?		122
	Write an essay on social behaviour in insects. V.V.I.		124
	Write an essay on evolution of social life in insects.		125
25.	What are Pheromones? Give an account of releaser and signal		
	pheromones. V.V.I.		126
26.	Write short note on the following :		
	(i) Chemical toxicants		127
	(ii) Tiger Reserves in India		127
	(iii) Ozone		128
	(iv) Rainwater harvesting		128

ZOOLOGY - 1 (Hons.) (2022)

The questions are of equal value. Answer five questions. selecting at least two from each group.

Group-A

1.	Classify Phylum Porifera upto orders giving distinctive	
	characters and suitable examples.	20
2.	Describe the methods of reproduction in Protozoa.	7
	Or, Describe the structure, life cycle and pathogenicity of the	
	endoparasite causing filariasis in man.	59
3.	Describe the structure and affinities of Ctenophora.	44
4.	Give an account of excretory system in annelids.	67
Or,	Describe water vascular system in starfish.	80
	Group-B	
5.	Give an account of abiotic and biotic components of a	
	freshwater ecosystem.	85
6.	Discuss the methods of conservation of wildlife.	99
7.	Elucidate types and nature of toxicants studied by you.	106
8.	Describe the methods of rain water harvesting. What benefits	
	you expect from such practice adopted by farmers.	128
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ZOOLOGY - 1 (Hons.) (2021)

The questions are of equal value. Answer five questions.

selecting at least two from each group.

Group-A

1.	Classify Phylum coelenterata upto orders giving diagnostic	
	features and suitable examples.	
2.	Describe the structure, life cycle and pathogenicity of the	
	parasite causing amoebic dysentry in man.	28
	Or, Write an essay on evolution of Metazoa.	
3.	Give an account of parasitic adaptations in Platyhelminthes.	49
4.	Describe the phenomenon of torsion and detorsion in	
	gastropods.	73
	Or, Give an account of Haemocoelomic system in leech.	64
	Group-B	
5.	What do you mean by limiting factors? Discuss laws of limiting	
	factors with Illustrations.	82
6.	Describe energy flow in an ecosystem studied by you.	83
7.	Give an account of social behaviour in insects.	124
8.	Describe various types of learning behaviour citing suitable	
	examples.	110

ZOOLOGY - 1 (Hons.) (2020)

Answer five questions, selecting at least two from each Group.

Group-A

1.	Classify phylum porifera upto the orders giving diagnostic	
	features and suitable examples.	31
2.	Describe the phenomenon of polymorphism in coelenterates.	
3.	Describe the structure, life cycle and pathogenicity of Taenia	
	solium.	51
4.	Give an account of water vascular system in starfish.	80
	Group - B	
5.	Define ecosystem. Describe the various components of any	
	freshwater ecosystem studied by you.	85
6.	What are food-chains? Explain the various types of food-chains	
	with the help of schematic representations.	91
7.	Define biodiversity. Give an account of various efforts made in	
	India for the conservation of biodiversity.	97
	Or, Give an account of administrative and legislative	
	measures that have been taken up for conservation of wild	
	life in India.	102
8.	What are pheromones? Describe the role of signaling or releaser	
	and primer pheromones in animal behaviour.	126

Rekha V.V.I. Questions for 2023 Examination

Answer of below mentioned V.V.I. questions are present in your Rekha Examination Guide and Guess Part-I Zoology-2

	Group-A	
	(Animal Diversity)	
1.	Write an essay on "Origin of Chordates." V.V.I.	 5
2.	Give the general characters and classification of Hemichordata.	 6
3.	Give the general characters and classification of Urochordata.	 8
4.	Give the general characters and classification of	
	Cephalochordata.	 11
5.	What is retrogressive metamorphosis? Describe it with	
	reference to the life cycle of Herdmania.	 12
6.	Give the general characters and classification of Cyclostomata. V.V.I.	 14
7.	Describe general characters, habit, habitat, distribution,	
	external features and affinities of Petromyzon.	 17
8.	Classify Chondrichthyes upto orders.	 19
9.	Give the general characters of Chondrichthyes. V.V.I.	 20
10.	Classify Osteichthyes upto orders.	 22
11.	Give the general characters of Osteichthyes.	 24
12.	Describe the process of respiration in a bony fish studied by	
	you. V.V.I.	 26
13.	Write an essay on migration of fishes.	 28
14.	Give the characteristic features of class Amphibia and classify	
	upto order.	 29
15.	Write an essay on Origin and evolution of Amphibia.	 32
16.	Write an essay on the parental care in Amphibians.	 34
17.	Explain Neoteny. V.V.I.	 36
18.	Classify living reptiles upto order giving their characteristic	
	features and suitable examples.	 38
19.	Describe biting mechanism of snakes.	 42
20.	-	 44
21.	Explain the flight muscles or flight adoptation in columba or	
	Pigeon (birds).	 47
22.	Give an account of Origin of birds.	 49
	Give an account of Migration of birds. V.V.I.	 52
24.		
	of Prototheria.	 57
25.		
	Metatheria or Marsupials.	 59
26.	Give an account of the adaptive radiation of Mammals.	 61
	Give an account of dentition in Mammals. V.V.I.	64

Group-B
(Developmental Biology)

(Developmental Biology)			
1.	Discuss the process of Oogenesis. V.V.I.		68
2.	Give an account of Spermatogenesis.		69
3.	Give an account of different type of eggs in vertebrates.		73
4.	Give an account of Fertilization.		74
5.	Give an account of Parthenogenesis. V.V.I.		78
6.	What is Cleavage? Discuss the kinds and characteristics of		
	Cleavage.		79
7.	Give an account of different types of cleavage found in		
	vertebrates.		81
8.	What is fate map? Give an account of fate map in frog.		87
9.	Describe the development of frog up to the formation of three		
	germinal layers.		90
10.	Describe the development of chick upto the formation of three		
	germinal layers. V.V.I.		97
11.	Give an account of extra-embryonic membranes in chick and		
	point out their functions. V.V.I.		101
12.	What is placenta? Describe its different types in mammals.		
	Explain their functions.		104
13.	Give an elementary description of primary organizer. V.V.I.		110

ZOOLOGY - 2 (Hons.) (2022)

Answer any five questions. Selecting at least two from each group.

Group-A

1.	Give an account of Retrogressive metamorphosis in	
	Herdmania.	12
2.	Classify class Amphibia upto orders giving salient features	
	and suitable examples.	29
3.	Write an essay on migration in fishes.	28
Or,	Describe biting apparatus and mechanism of biting in snakes.	42
4.	Write an essay on flight adaptation in birds.	47
	Group-B	
5.	Describe types and patterns of cleavage in vertebrate series.	81
6.	Describe gastrulation in frog upto the formation of three	
	primary germinal layers.	
7.	What is fertilization? Describe the mechanism of fertilization.	74
8.	Write short notes on any two of the following :	
	(a) Spermatogenesis	69
	(b) Types of placenta	104
	(c) Extraembryonic membranes in chick	101
	(d) Fate map in frog	87

ZOOLOGY - 2 (Hons.) (2021)

Answer any five questions. Selecting at least two from each group.

Group-A

	Group-A			
1.	Give an account of origin of Chordates 5			
2.	Classify Cyclostomes with salient features 14			
3.	Write an essay on migration of birds			
4.	Describe any three of the followings:			
	(a) General characters of Chondrichthyes 20 (b) Neoteny 36			
	(c) Skeletal peculiarities of Chelonia			
	(d) Dentition Rabbit 64 (e) Metatheria 52			
	Group-B			
5.	Describe the mechanism of Oogenesis in mammals			
6.	What is Gastrulation? Describe the development of chick			
	embryo up to the formation of three germinal layers97			
7.	Give an account of extra embryonic membrane in chick 101			
8.	Write short notes on any three of the following :			
	(a) Types of eggs 73 (b) Fate map 87			
	(c) Function of placenta 104 (d) Parthenogenesis 78			
	(e) Primary Organizer 110			
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ZOOLOGY - 2 (Hons.) (2020)

Group-A

		10
1.	Give an account of Retrogressive Metamorphosis in Herdmania.	12
2.	Describe the mechanism of respiration in bony fishes.	26
	Or, Write an essay on migration of fish.	28
3.	Describe the biting mechanism of poisonous snakes.	42
4.	Give an account of flight adaptations in Birds.	47
	Group - B	
5.	Describe the various types of cleavage encountered in vertebrates.	81
6.	Describe the types of placenta in mammals. Add a note on	
	functions of placenta.	104
7.	Describe, in detail, the process of spermatogenesis in mammals.	69
8.	What is fertilization? Discuss the sequence of events during	
	fertilization in vertebrates.	74