## 2018

## **ZOOLOGY - HONOURS**

## **Third Paper**

## Unit-II

Full Marks: 50

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Answer question No. 1 and any two questions from Group A and any two questions from Group B.

1.	Ans	swer any five questions:	2×5
	(a)	What is Ramsar site? Name 2 such sites found in India.	
	(b)	What are the characteristics of pioneer species?	
	(c)	Give full forms of IUCN and CITES.	
	(d)	Distinguish between dispersion and dispersal.	
	(e)	When is a niche considered to be 'n' dimensional hypervolume.	
	(f)	Name the two new hotspot sites of India.	
	(g)	What is JFM?	
	(h)	Define wetlands.	
		Crown A	
		Group A	
2.	(a)	What is carrying capacity? How is it used to frame the logistic model to introduce a mechanism of density dependent population regulation?	2+4
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2.	(b)	What is carrying capacity? How is it used to frame the logistic model to introduce a mechanism of density dependent population regulation?	
	(b) (c)	What is carrying capacity? How is it used to frame the logistic model to introduce a mechanism of density dependent population regulation?  Draw and describe the Y-shaped model of energy flow.	3
	(b) (c)	What is carrying capacity? How is it used to frame the logistic model to introduce a mechanism of density dependent population regulation?  Draw and describe the Y-shaped model of energy flow.  What is a Guild?	3
	(b) (c)	What is carrying capacity? How is it used to frame the logistic model to introduce a mechanism of density dependent population regulation?  Draw and describe the Y-shaped model of energy flow.  What is a Guild?  Explain the following (any two):  (i) 'No two species can coexist if they occupy the same niche.'	3

Please Turn Over

(a)	What is the basis of inhibition and tolerance model of Connell and Slatyer in ecologic succession?	cal +2
(b)	State the features of Detrivorous food chain.	2
(c)	Distiguish between Ecotone and Edge Effect.	2
(d)	What is Ecological Efficiency?	2
(a)	A population in 2017 in an area was 1000. 22 individuals were born and 4 died in that ye Calculate the population growth rate.	ar. 3
(b)	What is biotic potential?	2
(c)	State three ecosystem services provided by Wetlands.	3
(d)	Discuss the causes of El Nino.	2
	Group B	
(a)	•	•
		2
		2
(c)	What do you mean by Protected Area Network?	2
	What do you mean by the terms— Core, Buffer, Transitional Zones and Wildlife Corrido	r? 4
(d)	What do you mean by the terms— Core, Buffer, Transitional Zones and Wildlife Corrido  What is environmental auditing? Mention the steps involved in EIA. What do you mean by EI  2+4	4 [S?
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(d) (a) (b)	What is environmental auditing? Mention the steps involved in EIA. What do you mean by EI 2+4.  Enlist the causes behind Man – elephant confict.	4  S? +1  3
(d) (a) (b) (a)	What is environmental auditing? Mention the steps involved in EIA. What do you mean by EI 2+4.  Enlist the causes behind Man – elephant confict.  Elucidate the steps taken by Government to protect the tigers in India.	4 (S? +1 3
<ul><li>(d)</li><li>(a)</li><li>(b)</li><li>(c)</li></ul>	What is environmental auditing? Mention the steps involved in EIA. What do you mean by EI 2+4.  Enlist the causes behind Man – elephant confict.  Elucidate the steps taken by Government to protect the tigers in India.  Briefly narrate the objectives of Project Tiger.	4 IS? +1 3 2 2 2
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	(b) (c) (d) (a) (b) (c)	succession?  (b) State the features of Detrivorous food chain.  (c) Distiguish between Ecotone and Edge Effect.  (d) What is Ecological Efficiency?  (a) A population in 2017 in an area was 1000. 22 individuals were born and 4 died in that ye Calculate the population growth rate.  (b) What is biotic potential?  (c) State three ecosystem services provided by Wetlands.  (d) Discuss the causes of El Nino.  Group B  (a) What do you mean by social forestry and Agroforestry?  (b) Distinguish between National Park and Wildlife Sanctuary.