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FOURTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL/MAY 2015

(UG—CCSS)

Core Course-Zoology

					D T THE CONCEDI	TARKON MOVIO	OLOGY
02	4B ()7—EN	IVIRONMENTAL I ETHOLOGY,		AND ZOOGEOGRA		OLOGI,
				(2009—2012 A	dmissions)		
ne :	Thre	ee Hou	rs			Maximum: 30	Weightage
I.	Ans	swer al	twelve questions. E	ach question car	rries ¼ weightage :		
A.	Obj	ective 1	type questions :				
	1	The re	elationship between	hermit crab and	sea anemone is:		
		(a)	Commensalism.	(b)	Predation.		
		(c)	Mutualism.	(d)	Parasitism.		
	2	Mutat	tion theory was prop	osed by:			
		(a)	Darwin.	(b)	Hugo de Vries.		
		(c)	Lamarck.	(d)	Wallace.		
	3	Fossil	s are usually found i	n:			
		(a)	Sedimentary rock.	(b)	Alluvial soil.		
		(c)	Black soil.	(d)	Deserts.		
	4	The u	nit of sound is:		v like		
		(a)	Nanometer.	(b)	Decibel.		
		(c)	Bar.	(d)	Pascal.		
B.	Na	me the	following :-				
	5	A spec	cies that is confined	to a particular a	rea and found anywl	here else.	
	6	Name	the scientist who pr	roposed use and	disuse theory.	and one objected to	
	7	Name	the pheromone secr	eted by female s	silk moth.		
	8	Name	the scientist who pr	roposed recapitu	lation theory.		
C.	Fill	in the	blanks:				
	9		l selection theory wa				
	10	The p	henomenon of incre	ased species ric	chness at the bound	ary of communiti	es is called
							Turn over

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- 11 The communal interbreeding population of a species is called ———.
- 12 The organisms found on the bottom sediments are called ——

 $(12 \times \frac{1}{4} = 3 \text{ weightag})$

- II. Answer all nine questions. Each question carries 1 weightage:
 - 13 Define 10 percent law.
 - 14 Define primary production.
 - 15 Write notes on food chain. Draw a simple food chain.
 - 16 Define standing crop.
 - 17 Write notes on symbiotic nitrogen fixation.
 - 18 What is denitrification? Write an example.
 - 19 Define recycle index.
 - 20 Define carrying capacity.
 - 21 What is realised natality?

 $(9 \times 1 = 9 \text{ weighta})$

- III. Answer any five questions. Each question carries 2 weightage:
 - 22 Describe the population growth curves with neat labelled diagrams.
 - 23 Distinguish between home range and territory.
 - 24 What is niche? Add notes on fundamental niche and realized niche.
 - 25 Distinguish between anagenesis and cladogenesis.
 - 26 Distinguish between Sympatric speciation and Allopatric speciation.
 - 27 Explain the natural selection theory. Write an example.
 - 28 Explain kin selection.

 $(5 \times 2 = 10 \text{ weight})$

- IV. Answer any two questions. Each question carries 4 weightage:
 - 29 Write an essay on zoogeographical realms.
 - 30 Explain the evidences of organic evolution.
 - 31 Describe the threats of biodiversity. Add notes on the conservation of biodiversity.

 $(2 \times 4 = 8 \text{ weight})$