2018

(6th Semester)

(Juli Dell	iester j	
BACHELOR OF	СОМР	TER APPLICATIONS	
Paper	No. : BC	CA-601 (OC)	
(Enviro	nment a	and Ecology)	
	Old Co	urse)	
	Full Mark	ks: 75	
	ime: 3	hours	
(PAR	r : A —o	BJECTIVE)	
	(Marks	: 25)	
The figures in the marg	n indica	te full marks for the questions	;
	SECTIO	N—A	
	(Marks	: 15)	
1. Tick (✓) the correct answer i	the bra	ackets provided :	1×10=10
(a) Abiotic environment cons	sts of		
(i) living things ()		
(ii) non-living things	()		
(iii) solar system ()		
(iv) All of the above	()		
(b) Green plants constitute			
(i) complete food chain	()	
(ii) 3rd trophic level	()		
(iii) 2nd trophic level	()		
(iv) 1st trophic level	()		
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(c)	Ozone layer is formed in
	(i) stratosphere ()
	(ii) mesosphere ()
	(iii) troposphere ()
	(iv) exosphere ()
(d)	A food chain which starts with green plants and culminates with carnivores is called
	(i) grazing food chain ()
	(ii) detritus food chain ()
	(iii) plasma food chain ()
	(iv) All of the above ()
(e)	A diversity that indicates the number of species in a single community
	is called
	(i) gamma diversity ()
	(ii) beta diversity ()
	(iii) alpha diversity ()
	(iv) All of the above ()
<i>(f)</i>	A species is said to be extinct when it is not seen in the wild at a
	stretch of
	(i) 50 years ()
	(ii) 75 years ()
	(iii) 100 years ()
	(iv) 200 years ()
<i>(g)</i>	Noise pollution is a value greater than
	(i) 60 dB ()
	(ii) 80 dB ()
	(iii) 90 dB ()
	(iv) 100 dB ()
(h)	Per year world population is growing more than
	(i) 60 million ()
	(ii) 80 million ()
	(iii) 90 million ()
	(iv) 100 million ()

	(i)	Air pollutants mixing up	with	rain (can ca	use	
		(i) low acidity ()				
		(ii) high acidity ()				
		(iii) acid rain ()					
		(iv) pollutants ()				
	(j)	At present, world popula	ation is	s abo	ut		
		(i) 5.6 billion ()				
		(ii) 6.6 billion ()				
		(iii) 7.6 billion ()				
	3.6	(<i>iv</i>) 8.6 billion ()	• . 1	.1	,	1/10 =
2.	Mat	ch Column—A and Colu	mn—B	with	the co	rrect a	nswer: $\frac{1}{2} \times 10 = 5$
		Column—A					Column—B
	(a)	Autotroph	()	=	(i)	Christ child
	(b)	Omnivores	()	=	(ii)	Ornithologist
	(c)	Chipko Movement	()	=	(iii)	Green plants
	(d)	Salim Ali	()	=	(iv)	Earnst Haeckel
	(e)	World Environment Day	()	=	(v)	April, 1986
	<i>(f)</i>	World Population Day	()	=	(vi)	5th June
	<i>(g)</i>	Chernobyl Disaster	()	=	(vii)	December, 1984
	(h)	Bhopal Disaster	()	=	(viii)	11th June
	(i)	El Niño	()	=	(ix)	Rats
	<i>(j)</i>	Ecology was coined by	()	=	(x)	Sunderlal Bahuguna
			SECT	TION—	-В		
			(Mar	ks : 1	0)		
Writ	e no	tes on the following :					2×5=10
		tic components					
		spot of biodiversity					
		nwater harvesting					
		es of resource					
	0 1	enhouse effect					
٥.	310						

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(PART	:	B—DESCRIPTIVE
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(<i>Marks</i> : 50)	

		The figures in the margin indicate full marks for the questions						
1.	(a)	What is environment? Discuss the scope of environment.	3+5=8					
		OR						
	(b)	What do you understand by the term 'ecology'? Discuss the structura	d					
	()	· · · · · · · · · · · · · · · · · · ·	3+5=8					
2.	(a)	What is ecological pyramid? Write a brief description of pyramid o numbers.	of 3+5=8					
		OR						
	(b)	What is energy in ecosystem? Write a note on energy flow in ecosystem.	n 8+5=8					
3.	(a)	What do you understand by population explosion? Explain Malthusian	n					
		doctrine in population growth.	3+5=8					
		OR						
	(b)	What is population density? Explain the population stabilization and	d					
		sustainable development.	3+5=8					
4.	(a)	What do you mean by water pollution? Mention its sources and contro	1					
		of water pollution.	3+5=8					
	OR							
	(b)	What is solid waste management? Discuss the sources and management of solid waste management.	d 3+5=8					
5.	(a)	What is biodiversity? Mention the significants and benefits o	of					
	(-7	· ·	3+5=8					
	OR							
	(b)	What is sustainable development? How will you measure sustainable	e					
		development?	3+5=8					
6.	(a)	What is shifting cultivation? Write the impacts on land degradation. 5+	+5=10					
		OR						
	(b)	What is natural resource? Write note on the conservation of resources	S					
		and alternative strategies.	+6=10					