Sardar Patel University M.Sc. (Integrated) Biotechnology (IGBT), 7th Semester Theory Examination Thursday, 20th October 2016 02:30 P.M. to 05:80 P.M. PS07CIGEB2-(Ecology and Biodiversity)

Note	:		Total marks: 70					
1) Atte	mpt all the questions (inclu	ding multiple choice questions					
, .	in th	Attempt all the questions (including multiple choice questions) which is to be written in the provided answer book only.						
2) Drav	Draw neat and labeled diagram wherever necessary.						
Q.1		Multiple choice quest	·					
	(i).	In the association between	cons:					
	(1)	benefited and neither is	een mempers of different species and and					
1		/_\						
	,	(b) Commensalism	(c) Parasitism					
,	(ii).	A permanently frozen d	(d) Predation leeper soil layer, which may exist at a depth of					
		Servery of the fel 12 le	ound inregion.					
		(a) Alpine	(c) Tundra					
		(b) Meadow	(d) Dry deciduous forces					
	(iii).	Moving out of population	ns permanently which decrease populations					
		acrioity						
		(a) Emigrations	(c) Mitigations					
-	(ha	(b) Immigrations	(d) None of them					
	(iv).	Natility rate is determine	ed by					
		(a) N	(c) ΔN					
	/\	(b)n	(d) None of them					
	(v).	UNESCO declared	International Decade of Biodiversity.					
		(a) 2010-20	(c) 2001 ₋ 10					
	<i>(</i> ")	(b) 2011-21	(d) 2000-10					
	(vi).	The number of subspeci-	es, verities, forms or strains which slightly differ					
		nom each other						
		(a) Species diversity	(c) Ecosystem diversity					
		(b) Genetic diversity	(d) None of thom					
	(vii).	Taxa with small population	ons that are not endangered at present but are					
		at risk	Solver at procent but are					
		(a) Rare	(c) Intermediate					
		(b) Extinct	(d) Endangered					
	(viii).	Botanical Garden is the b	pest example of methods					
		of plant biodiversity	methods					
		(a) Ex- situ	(c) In-situ					
	-	(b) Both A and B	(d) None of Above					

Q.2	<i>(</i> :)	Answer the following (Any seven) What is Mutualism?	(14)	
	(i). (ii).	Enlist Niche Types.		
	(iii).	What are the causes of succession	. 3.	
13	(iv).	Define mortality and Natality	-as	
1	(v).	Explain in brief about species diversity		
	(vi).	What is the significance of IUCN red data books		
	(vii). (viii)			
·	(ix).			•
	(17).	Define Cryo-Preservation.		
Q.3	(a)	Enlist the types of interaction and explain in detail negative interaction with suitable examples.	(06)	
	(b)	Write a note on biomes of India.	(06)	·
1 1	(b)	OR	•	
	(b)	What is niche overlap? Explain fundamental and realised niche.	(06)	
Q.4	(a) ·	Explain in detail age structure and age pyramid.	(06)	
7,4	(b)	Enlist population size regulators and explain density dependent factors.	(06)	
ų.	(b)	OR	٠.	
•	(b)	Write a note on xerosere succession.	(06)	
Q.5	(a)	Explain in detail the causes for loss of biodiversity	(06)	
	(p)	Explain in brief about endangered flora and fauna of India	(06)	• .
	/6.1	OR Describe a service of the Control	٠	
	(b)	Describe economic important of mammals.	(06)	
Q.6	(a)	Explain goals, objectives and guiding principles of Environmental education.	(06)	
1 · · · · · · · · · · · · · · · · · · ·	(b)	Explain in details methods of <i>in-situ</i> conservation. OR	(06)	
	(b)	Explain in details methods of ex-situ conservation.	(06)	
7.4		***	¥	
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		(2)		
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5*			3	•
			N	
,		$m{ au}_{i} = \{ (i,j) \in \mathcal{A}_{i}^{(k)} : i \in \mathcal{A}$		

