Ro	ll No				ed in by the candidate)	
		(Acade	mic Sessions 2018 - 2	020 to 2020 - 2	.022)	
BI	olo	GY	222-(INTER PART	- II)	Time Allowed: 2.40 hor	urs
PAPER – II (Essay Type)			GROUP - I		Maximum Marks: 68	
			SECTION - I			
2	Wri	te short answers to a		ons:		16
Write short answers to any EIGHT (8) questions:(i) How animals of hypotonic environment osmoregulate? Give examples.						
it dispersion force Give example and signific					Give example and significance	
	(ii)	of this adaptation.				
	(:::)	How land animals trap a thick layer of air around the body? Give its significance.				
		Vhat is Ecdysis?				
	(iv)	Differentiate Hinge Joint and Ball and Socket joint by giving example.				
		What is arthritis?				
	(VI)	Define seed dormancy. Give its significance.				
(VII)	Can we find a fruit without seeds? Give example.				
				umpie.		
	(1X)	What is eutrophicatio	nroiries and savanna			
	(x)	Differentiate between	basia constituents			
	(X1)	Define soil. Give its What are industrial ef	Huanta? Give their tu	o effects		
						16
3. Write short answers to any EIGHT (8) questions:						10
		What happens when a				
		Elaborate habituation		earning.		
	(iii)	Give negative effects	of nicotine.			
	(iv)	What is a sex limited				
	(v)					
		Define linkage group				
	(vii)	How gene therapy he	lps cancer patients?			
(viii)	What are molecular s	cissors? How were th	ey obtained?		
		Write down the role of				
	(x)	Interpret the role of d	ecomposers in recycli	ng.		
	(xi)	Compare hydrosere v	vith that of xerosere.			
	(xii)	What is parasitism?	Write down its import	ance.		
4. Write short answers to any SIX (6) questions :					12	
	(i)	Compare gastrulation	and organogenesis.			
	(ii)		t and compensatory ef	fect are caused?	•	
	(iii)		Give its application in			
	(iv)	Give the composition				
	(v)	Differentiate between	heterochromatin and	euchromatin.		
	(vi)	What is mitotic appar	ratus?			
	(vii)	How cancer cells can	be distinguished from	n normal cells?		
((viii)	What is modern synt	hesis or Neo-Darwinis	sm?		
	(ix)		organs? Give example			
			SECTION -	II		
N	ote :	Attempt any THR	EE questions.			
		Discuss the temperate	-	imals.		4
٥.	(b)	Discuss nitrogen dep				4
6.	` '	Compare sclerenchyr				4
0.	` '	What is transcription				4
_	. ,	•				,
7.	(a)	-	hat mechanism which	maintains the c	oncentration of secretions	1
	4.	in the body.	1 1 4			4
	(b)	Write a note on ozon	-			4
8.	. /	-				4
	(b)	Explain the process of	of crossing over with t	he help of diagr	am.	4
9.	(a)	Define and explain e	mbryonic induction.			4
		p+q=1				
			ce shown in theorem r	nay not vary for		4
		a non-evolving popul	ation?		192-222-I-(Essay Type)-280	000