

अना International School Shree Swaminarayan Gurukul, Zundal

Student Name	1(/07/2020	C 1	VILCOUNCE	D - 11	
Date	16/0//2020 DIOLOCY	Grade	XII SCIENCE	Koll no-	
Subject	BIOLOGY	Marks	DU DESEMENT LIDDO DI	l eacher's Sign	
	<u>I</u>	<u>eriodic ass</u>	$\frac{1}{2020-21}$		
Ouestion no	1 to 05 1 Mark	each			
Question no	06 to 10 2 Ma	rk each			
Question no 11 to 15 3 Mark each					
Question no 16 to 20 4 Mark each				1.	
		- 10 M		100 March 100	
. Offspring's deri	ved by asexual	reproduction are	e called clones. Justify give	ving two reasons.	
2. Why is banana of	considered a go	od example of p	arthenocarpy?		
. Where is acroso	me present in h	umans? Write it	s function.		
. What is a Cistro	n?				
List the two main	in propositions	of Oparin and H	aldane.		
. The cell division	n involved in ga	mete formation	is not of the same type in	different	
organisms. Justi	fy.				
. Name the bacter	rium responsibl	e for the large h	oles seen in "Swiss Chees	se".	
What are these l	noles due to?	State of the local division of the local div			
. Explain signific	ance of the con	dition in which t	the testes remain suspend	ed in	
scrotum outside	the abdomen.		U I I I I I I I I I I I I I I I I I I I		
(a) Draw a neat	labelled diagram	m of a nucleosor	ne.		
b) Mention what en	ables histones t	o acquire a posi	tive charge		
0 How do Darwin	's finches illust	rate adaptive rad	liation?		
 Mention the site 	of zygote form	ation in the ovu	le of a flowering plant. W	/hat happens to sepals.	
petals and stame	ens after fertiliz	ation? State the	fate of zvgote, ovule and	ovary in these plants.	
2. Double fertiliza	tion is reported	in plants of both	, castor and groundnut. H	However, the mature seeds	
of groundnut are	e non-albumino	us and castor are	e albuminous. Explain the	e post fertilization events	
that are response	ible for it.		1	10 20 100	
3. Draw a labelled	diagram of the	reproductive sy	stem in a human female.		
4. Discuss the role	the enzyme DI	NA ligase plays	during DNA replication.		
5. How does indus	trial melanism	support Darwin'	s theory of Natural Select	ion? Explain.	
6. Enlist the chang	es that occur po	ost- fertilization	in plants.		
Or					
Explain mutualism v	with the help of	any two exampl	es. How is it different fro	m commensalism?	
.7. Draw a labelled	diagram of the	sectional view of	of a mature pollen grain if	n angiosperms. Explain the	
When and where are primary operator formed in a human famale? Trace the development of these					
ocytes till ovul	ation (in menst	rual cycle) How	do gonadotroping influe	nce this developmental	
process?		iuai cycic <i>j</i> . 1100			
9. What is 'semi-co	onservative' DN	A replication?	How was it experimental	ly proved and by whom?	
0. Explain the salid	Explain the salient features of Hugo de Vries theory of mutation. How is Darwin's theory of natural				
	ant frame 149 Erro	1	icery of matation. How is	2 a white theory of hatafal	