INDIAN MATRIC HR.SEC	S.SCHOOL,G.K. RTION-2020-21	•	RUR.
STD: XII		MARK	: 70
SUB: BIOLOGY		TIME	: 3.00HRS
	ART-A		
	NY (35 MARKS	5)	
I. Choose the correct answer:			8x1=8
1. The scar left by funiculus in the seed is		1, 1 1	
, , ,	c) epicotyl	,	
2. Some of the major species cultivated in A			e.
a) Malaivembu, Teak	b) Acacia, Albizza		
c) Sesbania, Acacia	d) Gliricidia, Erytl	hrina	
3. Match the following	,		
1. Stenothermal – i) Sa			
,	emperature		
3. Stenohydric – iii) F			
,	/ater		
a) $1-ii$ , $2-I$ , $3-iv$ , $4-iii$	b) 1-iv, 2-ii,3-I, 4		
c) 1-iv, 2-I, 3-iii,4-iv	d) 1-ii, 2-iv, 3-I,	4–111	
4. The dominant epistasis ratio is			
a) $9: 3: 3: 1$ b) $12: 3: 1$	c) 9 : 3: 4	a) 9 : 6 : 1	
5. Find the wrongly matched pair		<i></i>	
a) Digoxin- Cardiac tonic	b) Capsaicin-Rheumatic pain treatment		
c) Vincristine-Anti-carcinogenic	,		
6. The active principle trans-tetra hydroca			
a) Opium b) Curcuma	c) Marjuana	d) Androgi	rapms
7. Which one is in descending order of a fe		. Toutiours	
a) Producer→secondary consumers-			
b) Tertiary consumers $\rightarrow$ primary cor	-		
c) Tertiary consumers→Secondary c		-	
d) Tertiary consumers→ producers -		$rs \rightarrow second$	ary consumers
8. In which techniques Ethidium Bromide		Platting tool	haiduos
a) Southern Blotting techniques	,	Blotting tecl	
c) Polymerase chain reaction	uj Agrose C	Gel Electroph	010515

II. Answer any four of the following questions.	4x2=8
9. Define 'SCP'	
10. Differentiate bio-medicines and botanical medicines.	
11. What is Heterosis?	
12. Construct the food chain with following data.	
Hawk, plants ,frog, snake, grasshopper	
13. Name the enzymes involved in genetic engineering.	
14. What are clones?	
III. Answer any three of the following questions.	3x3=9
(Question No: 19 is compulsory)	
15. What is gene mapping? write its uses.	
16. What is $P^{BR322}$ plasmid?	
17. What is thermal stratification? Mention their types.	
18. Write the three difference between Habitat and niche.	
19. Draw and label the structure of ovule.	
IV. Answer all the questions.	2x5=10
20. a) Give a detailed account on parthenocarpy. Add a note on its significance	e.
(or)	
b) Mention the name of man-made cereal. How its is formed?	

21. a) Give an account of active principle and medicinal values of any two plants you have studied.

(or)

b) Write the differences between primary succession and secondary succession.

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## PART-B

## **BIO-ZOOLOGY**

	В	DO-ZOOLOGY			
I. Choose the correct	answer.			8x1=8	
1. The androgen Bin	ding protein (ABP)	is produced by			
a) lydig cell		b) Hypothalami	15		
c) Sertolicell		d) Pituilary glar	ıd		
2. A marriage betwe	en a colourblind m	nan and a normal wo	man produces		
a) all carrier daughters and normal sons					
b) 50% Carrier daughter, 50% normal daughter					
c) 50% Colour blind sons, 50% normal sons.					
d) All carrier offsprings.					
3. Which is the ideal example for DNA point mutation.					
a) Klinefeter's syndrome b) Turner's syndrome					
c) Sickle cell anaemia d) None of these					
4. Which period is considered age of invertebrates					
a) Cambrian		b) Silurian	b) Silurian		
c) carboniferc	ous	d) Permian	d) Permian		
5. Allergy involves					
a) IgE	b) IgG	c) IgA	d) IgM		
6. The most common	1 substrate used in	distilleries for the pro	oducitonof ethanol is	5	
a) Soyameal	b) Groundgra	m c) Molasses	d) Bollworms		
7. ELISA– is mainly ι	used for	-			
a) Detection of mutation b) Dectection of pathogens					
c) Selecting animal having desired traits. d) Selecting plants having desired traits.					
8. Who introduced t	he term biodiversit	<sup>y</sup>			
a) Edward wil	sol	b) Walter Rosec	l		
c) Norman my	<i>i</i> ers	d) Alice Nroma	n		
II. Answer any four	of the following qu	estions.		4x2=8	
9. Define the 'Hotspo	ots'				
10. Differentiate Pho	ototropism and pho	otokinesis.			
11. What are DNA w	accines.				
12. Placenta is an Er	docrine tissue. Just	tify.			
III. Answer all the qu	lestions:			3x3=9	
13. How to control and management of Nuclear (or) radio active waste.					
14. Explain how ADA deficiency can be corrected					
15. What are the ap	plications of karyot	typing			

## III. Answer all the questions:

16. Write the properties of genetic material (DNA Versur RNA)

(or)

Explain the lac operon model.

17. Describe the major STDs and their symptoms.

(or)

Briefly explain the Birth control method.