AMIT AJMANI'S ACADEMY

D-16/82/SECTOR-7, ROHINI, DELHI PH: 9810476588, 9953371470

X BIOLOGY CLASS TEST

M.M.-30

Name of Student:		Class & Sub:		
Topic of Test: HEREDITY AND	EVOLUTION No. 1	Date :		
 What does Mendelian factor Why are traits acquired durir What is meant by speciation What is genetic drift? How do Mendel's experiment How is the sex of the child d What are vestigial organs? G Work out a cross between permanent 	means? Ing the life time of an it Its show that traits mate etermined in human believe two egs of vestiging a plants Tt (Tall) and	ndividual not inherited? 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
(b) Give percentage of percentage (c) In what ratio will you14. Depict the cross between a h	ts for his experiment? nat lead Mendel to do and homologous orga l cross and dihybrid cr med tomato plants is d When these two are o would you expect in t urple-stemmed plants i find the genotypes C omozygous tall plant	OR What were the various his experiment on them? 2 cans with examples. 3 coss. 3 denoted as GG and that of purple crossed: heir F ₁ progeny and why? if F ₁ plants are self-pollinated. GG and Gg in the F ₁ progeny?3 with wrinkled seeds and a		
homozygous dwarf plant wit 15. Study the data given below a		5 one that follow:		
Parental plant cross Fertilized and seeds collected	F_1 offspring	F_2 (self pollination of F_1)		
Male parent always bore Red flowers	330 seeds sown and observed	Out of 44 seeds, 33 seeds gave plants with red flowers And 11 seeds gave plants		
Female parent always had White flowers (a) What is the term for this type (b) What does the data of the co	lumn marked F ₁ indic			
(c) Express the genotype of the Parents, F_1 progeny and F_2 progeny.				

AMIT AJMANI'S ACADEMY

D-16/82/SECTOR-7, ROHINI, DELHI PH: 9810476588, 9953371470

X BIOLOGY CLASS TEST

M.M.-30

Name of Student:		Class &	Sub:
Topic of Test: HEREDITY AND 	EVOLUTION No. 2	Date	:
1. Which fossils provide eviden	ce that birds have evol	ved from rep	otiles?
2. How do Mendel's experimen	ts show that traits are i	nherited inde	ependently? 2
3. How does wing of a bird and	wing of an insect act a	s tools to stu	dy evolution? 2
4. Explain 'It's a matter of chan	ce whether a couple gi	ves birth to	a boy or a girl.'2
5. What are acquired and inheri	ted traits?		2
6. Give the salient features of D	arwin's theory of natur	ral selection.	3
7. A person is given a set of two	tall pea plants and wh	en asked to	find that whether
the plants given to him are ho	omozygous tall or heter	ozygous tall	, he performs a
test cross by crossing it with			
the tall and dwarf pea plant, v		mozygous ta	ıll (ii)
heterozygous tall. Show the o			3
8. Define the following: Heredi			4
9. What are fossils? How are th			_
can be determined? How they			
10. In water melons dark green c		1 .0,	
crosses two water melon plan			
(a) What will be the ratio of dark		nd striped wa	ater melons
(genotypic ratio) in the offspi			
(b) What will be the percentage	_	water melon	
Show with the help of the crosse		41 4 6 11	3
11. Study the data given below a	-		
Parental plant cross	F ₁ offspring	F ₂ offspring	•
fertilized and	generation	pollination	OI F ₁
seeds collected			
Mala manantalyyaya hana	260 ands anyon	Out of 19 as	anda 26 anada
Male parent always bore Yellow seeds and female	360 seeds sown and observed		eeds, 36 seeds
		•	with yellow seeds
Parents always had green Seeds.	All 360 gave Yellow seeds.	Green seeds	s gave plants with
TT 71 . 1 . 1		Office Seeds	·.
a. What is the term for t b. What does the data of	* *	indicate?	

c. Express the genotype of the Parents, F_1 progeny and F_2 progeny.