

SCIENCE - PRACTICE REMEDIAL EXAM
I TRIMESTER / 8TH GRADE / JR. HIGH SCHOOL

I. Select if it belongs with dominant allele or recessive allele.

_____ → **Dd** ← _____

II. Select if the pair of alleles will show a dominant or recessive trait / characteristic.

DD dd Dd

III. Complete the next Punnet square.

	D	d
D		
d		

IV. Read the sentences and choose the correct answer.

According to the following Punnett square, what is the probability that the baby would have a genetic disease if the allele is recessive and if both parents are carriers but do not have the disease (LI)?

	L	I
L	LL	LI
I	LI	II

- a) 25% b) 50% c) 75% d) 100%

V. Select an example of a natural clone (that is reproduced asexually).

- a) human baby b) kitten c) seed produced by pollination d) bacteria

VI. Select 4 options that are NOT a fermented food.

- a) yogurt b) milk c) meat d) bread
e) egg f) cheese g) wine h) vegetables

VII. What is the function of a vaccine?

- a) it replaces your blood with medicine b) it gives you superpowers
c) it makes you sick on purpose d) it blocks arteries
e) it helps your body learn to fight bad bacteria f) it makes you feel sleepy.

VIII. What is the kind of microorganism an antibiotic can kill?

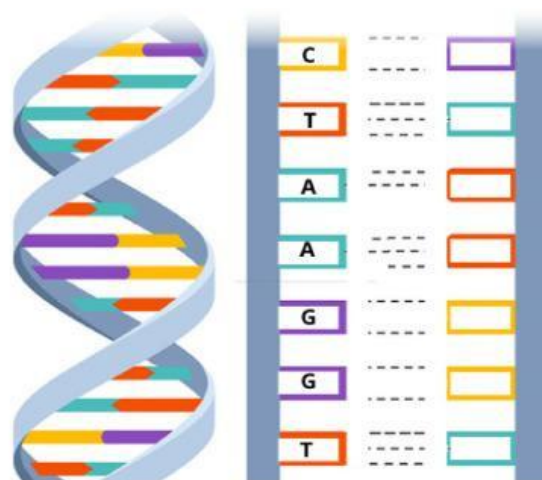
- a) levadura b) virus c) mold d) bacteria

IX. Select the option of how we can prevent extinction of endangered species.



a) by hunting animals for sport.	b) by destroying habitats.	c) by protecting ecosystems.	d) by polluting.
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X. Select the option of the next DNA base pairs that are matched correctly.



XI. Select the right names for the DNA base pairs.

C= _____ G= _____

A= _____ T= _____

XII. From the next words, select with a checkmark (✓) 3 of them that are inherited disorders. (17.18.19.)

(_____) Allergy (_____) Fever (_____) genetic deafness

(_____) Cystic Fibrosis (_____) Gastritis (_____) Polydactyly

(_____) Influenza / Flu (_____) Down syndrome (_____) Headache

XIII. Complete the following text with the best option that fits in the next text.

_____ uses natural reproduction to choose organisms with desired traits over many generations, while _____ directly alters an organism's DNA in a lab, allowing for precise insertion or deletion of specific genes, even from different species, creating genetically modified organisms much faster and with traits not possible naturally.

XIV. Select the option if it is an advantage or disadvantage of genetic engineering.

	Advantage or disadvantage?
We may develop crops with higher production.	
Negative impact on biodiversity.	
It may increase disease susceptibility.	
Dependency for farmers on large corporations.	
We may get a characteristic we desire in an organism.	
Pest and disease resistance.	
It reduces variation within the species.	