

## تم تحميل هذا الملف من موقع المناهج الإماراتية



## حل مراجعة الوحدة الأولى الوراثة البشرية والمعقدة منهج انسابير

موقع المناهج ← المناهج الإماراتية ← الصف الثاني عشر المتقدم ← علوم ← الفصل الأول ← حلول ← الملف

تاريخ إضافة الملف على موقع المناهج: 15:24:26 2024-12-11

ملفات اكتب للمعلم اكتب للطالب | اختبارات الكترونية | اختبارات | حلول | عروض بوربوينت | أوراق عمل  
منهج انجليزي | ملخصات وتقارير | مذكرات وبنوك | الامتحان النهائي للمدرس

المزيد من مادة  
علوم:

إعداد: أحمد الحداد

## التواصل الاجتماعي بحسب الصف الثاني عشر المتقدم



صفحة المناهج  
الإماراتية على  
فيسبوك

الرياضيات

اللغة الانجليزية

اللغة العربية

التربية الاسلامية

المواد على تلغرام

## المزيد من الملفات بحسب الصف الثاني عشر المتقدم والمادة علوم في الفصل الأول

حل مراجعة الدرسين الأول والثاني من الوحدة الأولى الوراثة البشرية والمعقدة

1

حل مراجعة نهائية وفق الهيكل الوزاري منهج انسابير

2

مراجعة نهائية للمقرر وفق الهيكل الوزاري منهج بريدج

3

شرح درس disorders and Pedigree سجل النسب والاضطرابات

4

تجميعة مراجعة شاملة وفق الهيكل الوزاري منهج انسابير

5

23-10-2024

**Over Review**

0544557773



**1- Which of the following is not a characteristic of a person with albinism?**

- A. Liver enlargement
- B. Vision problems
- C. Skin discoloration
- D. Skin damage due to ultraviolet rays

digestive system

recessive disorders, affect on skin color and vision.

Ahmed Elhddad 2024  
The First Bio Teacher  
0547955495

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**2- Which of the following represents a healthy male with color blindness and whose blood type is AB?**

- a.  $X^A Y | I^A I^A$
- b.  $X^A Y | I^A I^B$
- c.  $X^{a} Y | I^A I^B$
- d.  $X^{a} Y | I^A I^A$

sex-linked chromosomes  
multiple alleles  
codominance  
Coat color in rabbit  
 $X^A Y \rightarrow$  normal  
 $X^a Y \rightarrow$  blindness

**3-  $Cc^{ch} \times cc$  rabbits are produced by mating a female rabbit.**

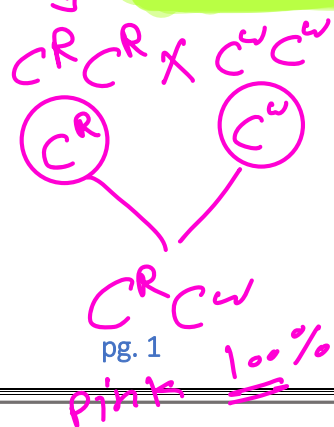
- A. 100% Single Color
- B. 50% Single Color: 50% More Than One Color
- C. 100% More Than One Color
- D. 50% Single Color: 50% Himalaya

	C	$C^{ch}$
c	$Cc$	$cC^{ch}$
c	$Cc$	$cC^{ch}$

one color  
more colors  
Himalaya  
Albinism

**4- From the mating of two night-blooming plants, 50 red, 100 pink and 50 white plants were produced. The genetic makeup of the parents is:**

- A.  $C^R C^W \times C^W C^W$
- B.  $C^R C^R \times C^W C^W$
- C.  $C^R C^R \times C^R C^W$
- D.  $C^R C^W \times C^R C^W$



incomplete dominance.  
red  
white  
pink

genotype

	$C^R$	$C^W$
$C^R$	$C^R C^R$	$C^R C^W$
$C^W$	$C^R C^W$	$C^W C^W$

intermediate trait



**5- When there is a different trait in identical twins, this means that the trait**

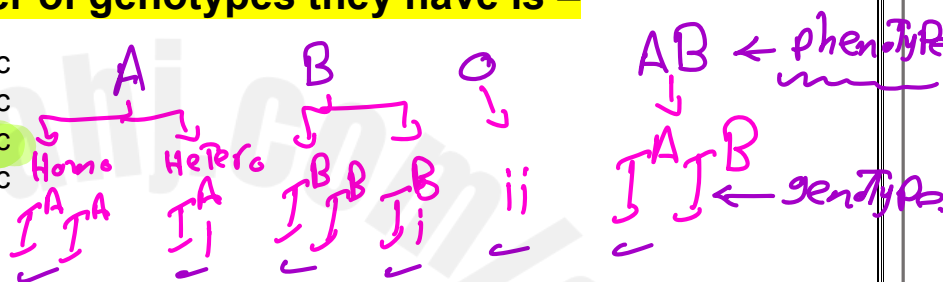
Temporarily مؤقتة

- A. Affected by environmental factors
- B. Not affected by environmental factors
- C. Affected by genetic factors only
- D. All of the above is correct



**6- Which of the following statements is true regarding blood types in that the number of genotypes they have is -**

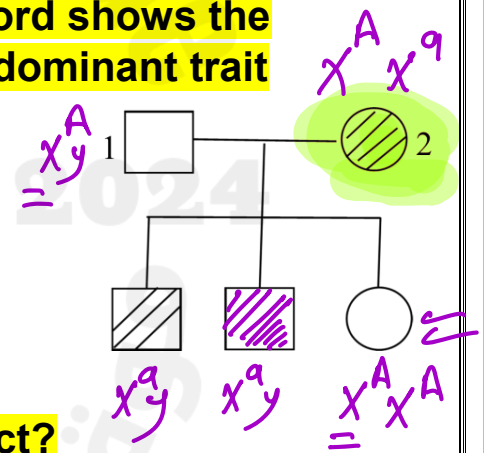
- A. 4 phenotypic and 4 genetic
- B. 6 phenotypic and 4 genetic
- C. 4 phenotypic and 6 genetic
- D. 6 phenotypic and 6 genetic



**7- Determine the genetic makeup of individual number 2 in the first generation if you know that this record shows the inheritance of the trait of rickets, which is a dominant trait linked to the sex.**

- A.  $X^A X^A$
- B.  $X^a X^a$
- C.  $X^A X^a$
- D. Nothing

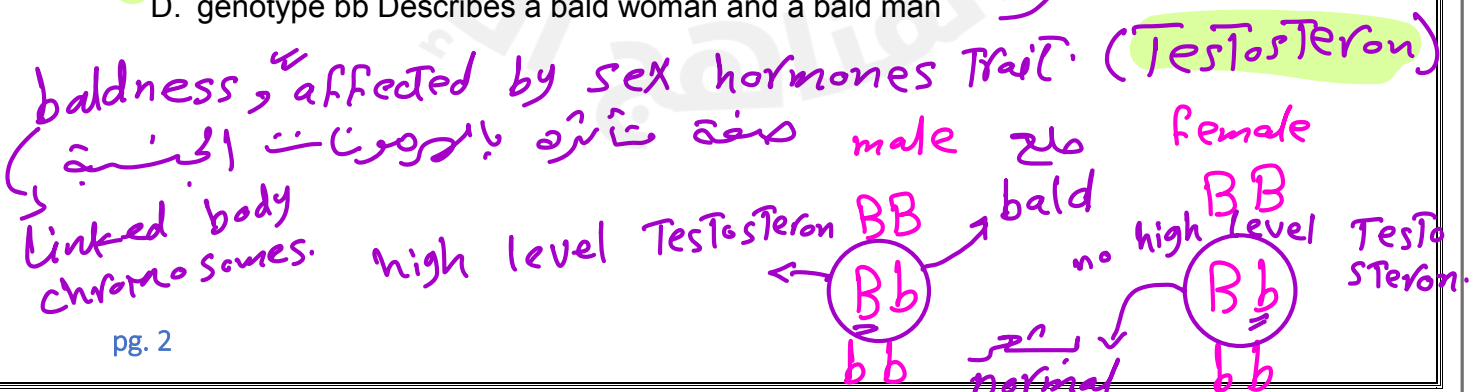
الكساح  
 $X^A Y$  normal  
 $X^a Y$  illness



**8- Which of the following sentences is correct?**

- A. genotype BB Describes a bald woman and a non-bald man
- B. genotype bb Describes a non-bald woman and a bald man
- C. genotype Bb Describes a non-bald woman and a bald man
- D. genotype bb Describes a bald woman and a bald man

bald





9- Which of the following genetic terms describes the inheritance of fingerprint pattern?

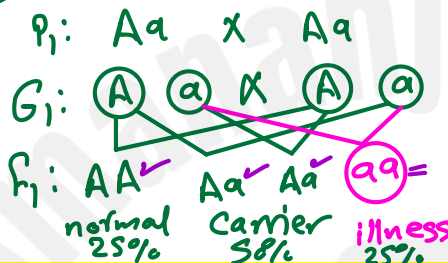
- A. Codominance
- B. Multiple alleles
- C. Epistasis
- D. Polygenic traits

Fingerprint  
eyes color  
Height  
Skin color

6 Alleles  
Aa Bb Cc

10- From the cross of two parents who are both carriers of phenylketonuria (recessive disorder). The probability of having two children with the disease is

- A. 1/4
- B. 8/1
- C. 1/2
- D. 16/1



1/4 (2) → 1/4 · 1/4 = 1/16

1/4 (3) → 1/4 · 1/4 · 1/4 =

1/4 (4) → 1/4 · 1/4 · 1/4 · 1/4 =

11- Two children from two families were mixed in the hospital, one of them is O and the other is A hybrid. If you know that the phenotypes of the first family are that the father is A hybrid and the mother is A hybrid, and the second family is that the mother AB and father is O, which of the following options is correct?

- a. child for the second and A of the first family
- B. There is no possibility that both children of the two families
- C. A child for the second and O of the first family
- D. None of the above



12- Which of the following is not a characteristic of a person with cystic fibrosis?

- A. Chloride channel dysfunction
- B. Digestive problems
- C. Skin pigment loss
- D. Recurrent lung disease

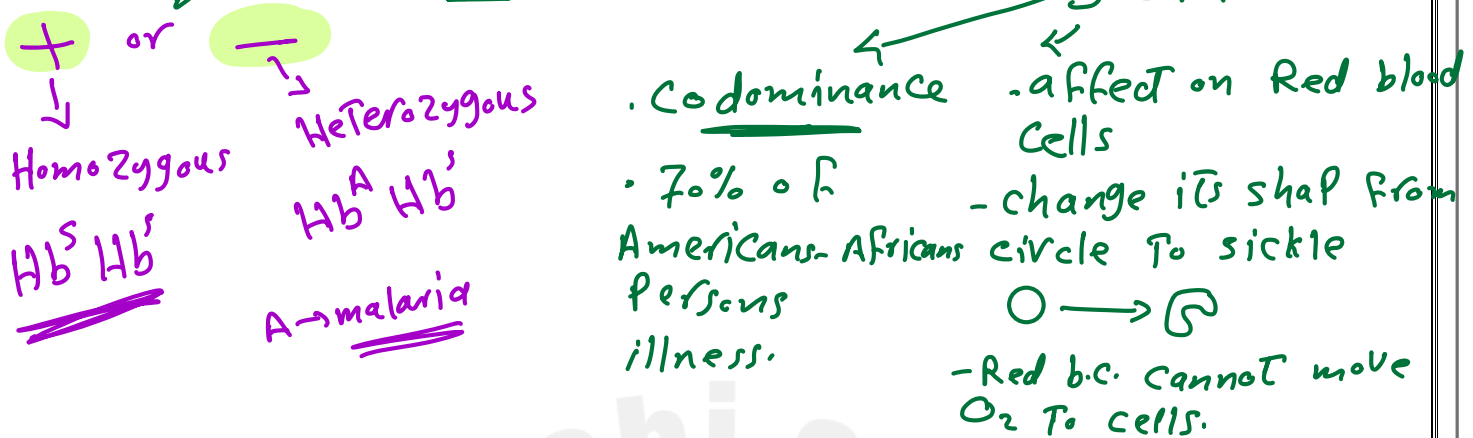
Recessive disorders.  
- affected in the internal canals of respiratory and digestive systems.

Ahmed Elhddad 2024  
The First Bio Teacher  
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(in TikTok 'dispensary')

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13- Evaluate whether sickle cell anemia is positive or negative for a person living in Central Africa.



<u>genotype</u>	<u>Phenotype</u>	<u>Pattern</u>
<u>Aa Tay Sachs</u> <u>aa</u>	Normal	Complete dominant. البياض، البياض
<u>EeBb In</u> <u>Labrador dogs</u>	dark	- Complex pattern (Epistasis).

15- Explain why genetic analysis in humans is difficult.

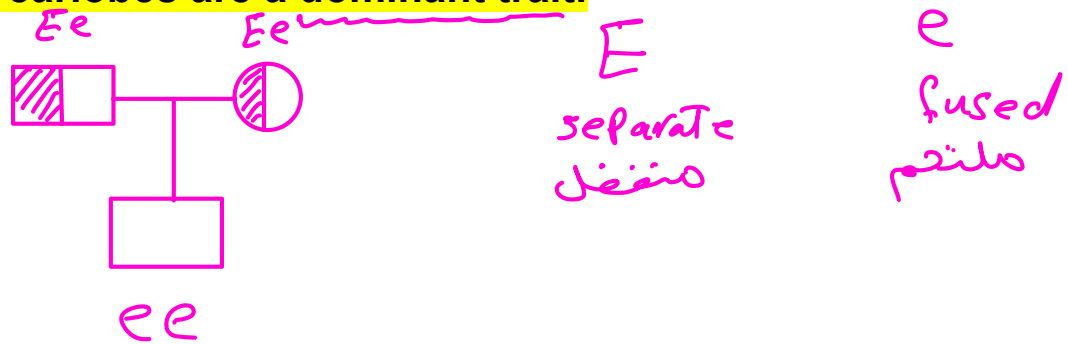
- 1- Long Time
- 2- moral and religious reasons.

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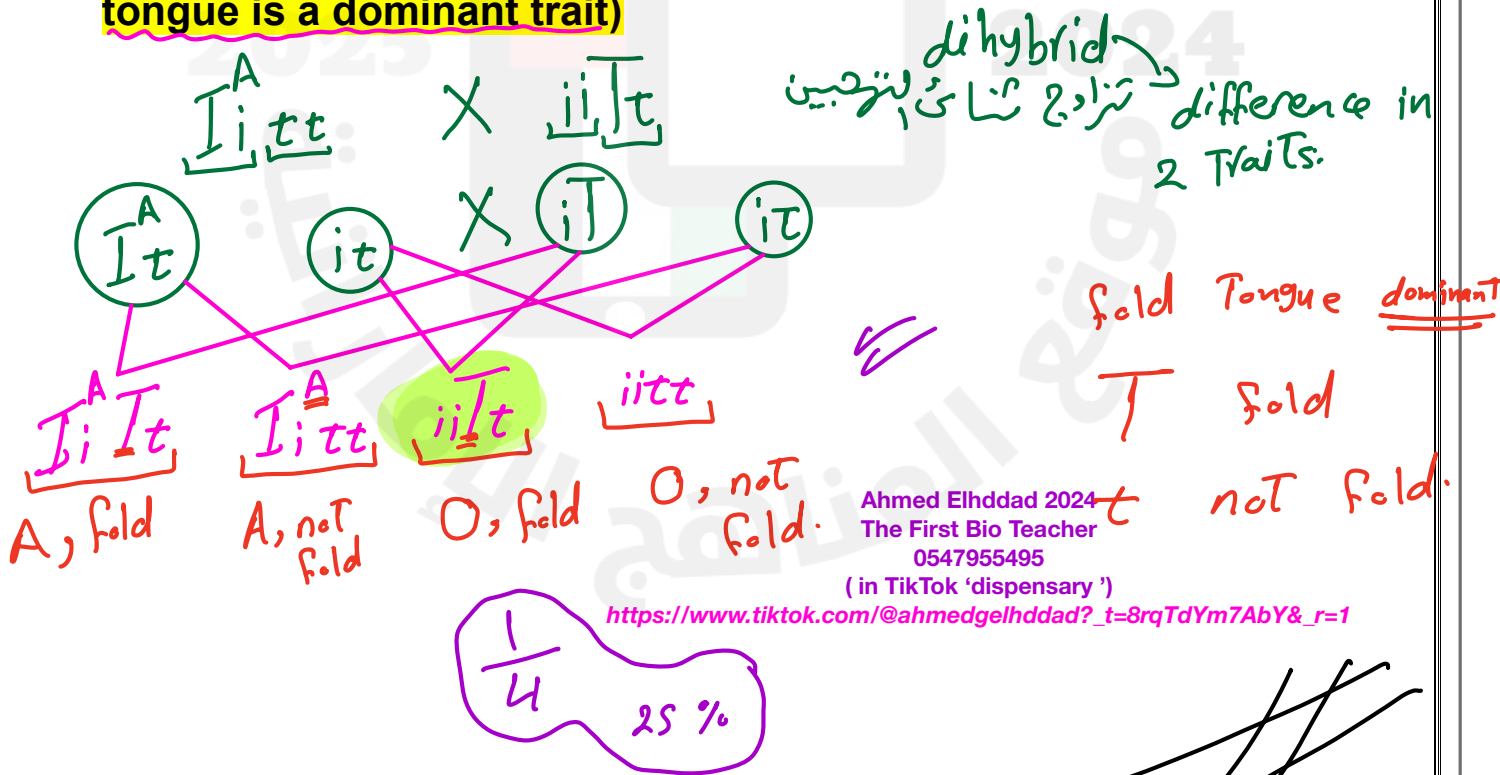


16- Draw a pedigree for two parents who have separate earlobes but whose son has fused earlobes, knowing that separate earlobes are a dominant trait.



17- Use genetic analysis to find the probability of having a male child with a blood type O that has the ability to fold the tongue

if the father is A hybrid who does not have the ability to fold the tongue and the mother O and has the ability to fold the tongue and is a hybrid. (Knowing that the ability to fold the tongue is a dominant trait)



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18 When a man with blood type (O) positive (hybrid) mates with a woman with blood type (AB) negative (rhesus factor), what is the probability of having a child with blood type (O) negative (rhesus factor)?

- A. 0%
- B. % 25
- C. % 50
- D. % 100

19- How many gametes are produced by the following genetic combination of a male organism in its developed sex cell before the process of fertilization and pollination occurs?

AaBbCCDdEeFF

- 6
- 8
- 16
- 32

20- Which of the following results if a normal sperm fertilizes a human female egg that has 24 chromosomes, including one sex chromosome that is different from the sex chromosome found in the sperm?

- A. Klinefelter Syndrome
- B. Turner Syndrome
- C. Down Syndrome Female
- D. Down Syndrome Male



**21- If a female child has hemophilia, this confirms that...**

- A. The mother is healthy and the father is infected
- B. The mother is infected and the father is healthy
- C. The mother is a carrier of the disease gene and the father is healthy
- D. The mother is a carrier of the disease gene and the father is infected

**22- Recessive trait, the probability of its appearance is ..... if the father is not a carrier of the disease ....., while the probability of its appearance is 0% if the father is ..... for a dominant trait. Dominant trait, the probability of its appearance is ..... if the father is a carrier of the disease ....., while its percentage is 100% if the father is a carrier of the disease ..... for a dominant trait.**

- A. 50%, heterozygous, homozygous // 50%, heterozygous, homozygous.
- B. 100%, heterozygous, homozygous // 50%, heterozygous, homozygous.
- C. 50%, heterozygous, homozygous // 100%, heterozygous, homozygous.
- D. 50%, homozygous, heterozygous // 50%, heterozygous, homozygous.

**23- What effect can the presence of dominant and recessive alleles have on the inheritance of a particular trait?**

- A. Recessive trait appears in all cases
- B. Disappearance of dominant trait
- C. Dominance of dominant trait over phenotype
- D. Impossibility of any trait appearing

**24- Two parents are heterozygous for Huntington's disease, an autosomal dominant genetic disorder. What is the probability of having 4 children with the disease HH?**

- 16/1
- 96/1
- 256/1
- 360/1



**25- Which of the following traits can be influenced by environmental factors in addition to genetic factors?**

- A. Skin color
- B. Blood type
- C. Autism
- D. All of the above

