

تم تحميل هذا الملف من موقع المناهج الإماراتية



## نموذج اختبار تجريبي وفق الهيكل الوزاري

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

تاريخ إضافة الملف على موقع المناهج: 2024-12-11 22:46:47

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:

## 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 الوحدة الأولى الوراثة البشرية والمعقدة منهج انسباير

1

حل مراجعة الدرسين الأول والثاني من الوحدة الأولى الوراثة البشرية والمعقدة

2

حل مراجعة نهائية وفق الهيكل الوزاري منهج انسباير

3

مراجعة نهائية للمقرر وفق الهيكل الوزاري منهج بريدج

4

شرح درس disorders and Pedigree سجل النسب والاضطرابات

5



وزارة التربية والتعليم  
MINISTRY OF EDUCATION

ورقة الاختبار المركزي - التجريبي

الفصل الدراسي الأول

2025

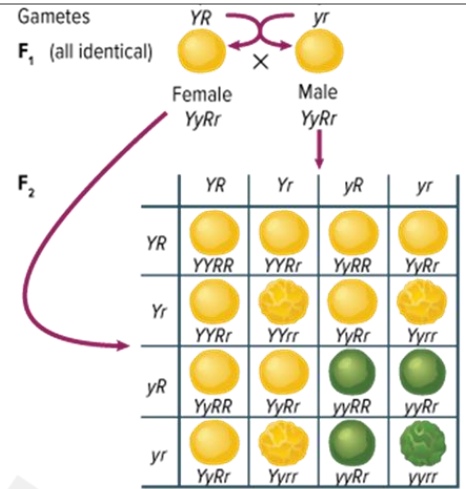
2025-2024

امتحان تجريبي في مادة

برنامج الشراكة المدرسية بين

مدرسة أم عمارة للتعليم الثانوي  
مدرسة المعرفة (2) الحلقة الثانية والثالثة بنات

1. What is the phenotypic ratio for the following dihybrid cross?



- A. 9:3:3:1  
B. 7:4:4:1  
C. 4:4:4:4  
D. 12:4

2. Which of these pertains to Mendel's law of independent assortment?

- A. protein production  
B. separation of alleles during meiosis  
C. observable characteristics of a trait  
D. random distribution of alleles

3. If a human has 23 pairs of chromosomes, how many possible combinations of gametes can be produced by the random lining up of pairs in meiosis?

- A. 2,097,152  
B. 8,388,608  
C. 4,194,304  
D. 16,777,216



4. White grapefruit (W) is dominant to red grapefruit (w). A farmer breeds a white grapefruit with a red grapefruit. The offspring's characteristics are as follows:

- half are white grapefruit
- half are red grapefruit

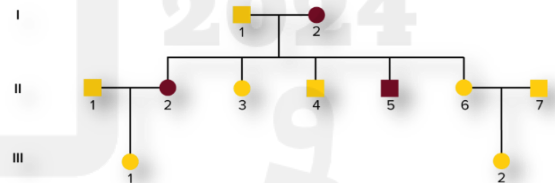
Based on the offspring's characteristics, what is the genotype of the parental white grapefruit?

- A. Ww
- B. WW
- C. Ww
- D. It cannot be determined

5. Which term describes the process in which people cross parent organisms with different forms of a trait to produce offspring with specific traits?

- A. Hybridization
- B. Inbreeding
- C. Test crossing
- D. Pure breeding

6. Which of the following disorders could follow the inheritance pattern shown in the pedigree diagram?

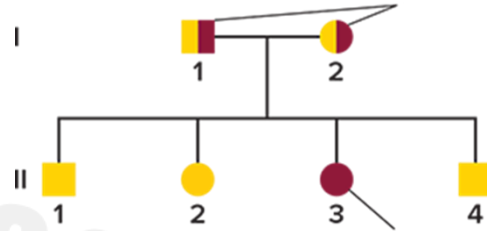


- A. Cystic fibrosis
- B. Albinism
- C. Tay-sachs disease
- D. Achondroplasia

7. Which of the following is not a characteristic of a person with Huntington's disease?

- A. A gradual loss of brain function.
- B. Uncontrollable movements.
- C. Vision problems.
- D. Emotional disturbances.

8. What is the genotype of person 3 in generation 2?



- A. RR
- B. rr
- C. Rr
- D. Not enough data

9. Which of the following illustrates the genotype of a male of blood group B and not having hemophilia disease?

- A.  $X^H Y I^B i$
- B.  $X^H X^h I^B I^B$
- C.  $X^h X^h I^B i$
- D.  $X^h Y I^B I^B$

10. In radishes, color is controlled by incomplete dominance, where homozygous dominant radishes are red, homozygous recessive radishes are white, and the intermediate radishes are purple. What phenotypic ratios would you expect from crossing two heterozygous plants?

- A. 3:1, red: white
- B. 2:2, red: white
- C. 1:1:1, red: purple: white
- D. 1:2:1, red: purple: white

11. What is the genotype of a woman with red-green color blindness?

- A.  $X^b Y$
- B.  $X^b X^b$
- C.  $X^B X^b$
- D.  $X^B X^B$

12. Why do Calico cats typically have a patchy coat color?

- A. They inherit two different colored fur alleles from their mother.
- B. X-inactivation randomly inactivates one X chromosomes.
- C. They have two Y chromosomes, causing different coat colors.
- D. Their coat color is determined by the inheritance of mitochondria DNA not from gametes.

13. The figure below represents the offspring of two pea plants. Which is the ratio of pea plant offspring with recessive green seeds if both parents are hybrids?

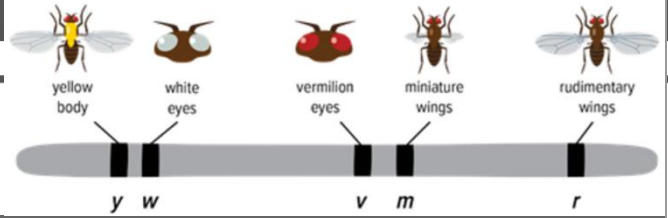


- A. 25%
- B. 50%
- C. 75%
- D. 100%

14. Freckles is represented as F. An individual with no freckles has the \_\_\_\_\_ genotype.

- A. FF
- B. Ff
- C. ff
- D. Freckles

15. Based on the chromosome map shown, which 2 alleles have the least frequency of crossing over.



- A. r and y
- B. y and m
- C. r and w
- D. y and w

16. What is polyploidy?

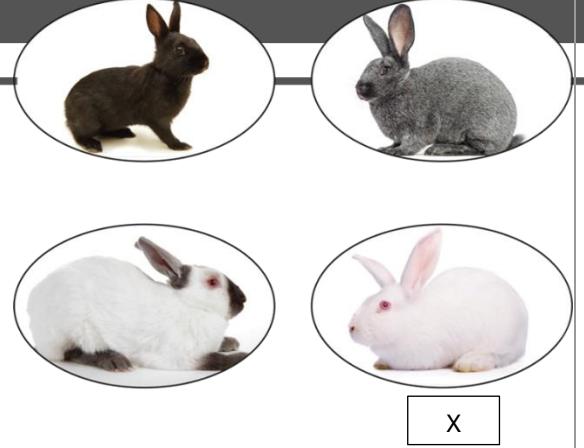
- A.  $3n$  and more sets of chromosomes in an organism.
- B. New combinations of genes that result from crossing over and independent assortment.
- C. Breeding between two closely related individuals; the offspring are homozygous for most traits and harmful recessive traits can sometimes show.
- D. Trait that can be observed if the dominant trait is not present.

17. What is the desirable trait for saint Bernard dogs?



- A. High endurance
- B. High trainability
- C. Keen sense of smell
- D. Obedience

18. What is the allele required for the following phenotype of x?

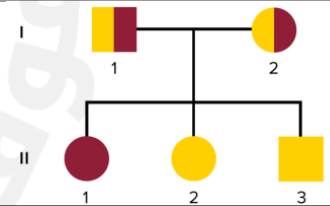


- A. cc
- B. CC
- C. Ch Ch
- D. C ch c

19. A father with type A+ blood and a mother with type O+ blood have four children. Of their four children, two have type A+ blood and two have type O+ blood. What is the genotype of the father?

- A. ii
- B. IAIB
- C. IAIA
- D. IAi

20. How many offspring in this example have the alleles for Tay-Sachs disease?



- A. 2
- B. 0
- C. 3
- D. 1







