

أسئلة الامتحان النهائي منهج بريدج مع الإجابات



تم تحميل هذا الملف من موقع المناهج الإماراتية

موقع المناهج ← المناهج الإماراتية ← الصف الحادي عشر المتقدم ← علوم ← الفصل الأول ← ملفات متنوعة ← الملف

تاريخ إضافة الملف على موقع المناهج: 2025-11-27 17:20:29

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

المزيد من مادة
علوم:

التواصل الاجتماعي بحسب الصف الحادي عشر المتقدم



صفحة المناهج
الإماراتية على
فيسبوك

الرياضيات

اللغة الانجليزية

اللغة العربية

التربية الاسلامية

المواد على تلغرام

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

أسئلة الامتحان النهائي منهج بريدج مع الإجابات

1

حل كراسة تدريبية مراجعة وفق الهيكل الوزاري الجديد منهج بريدج

2

حل تجميعية أسئلة وفق الهيكل الوزاري الجديد منهج بريدج

3

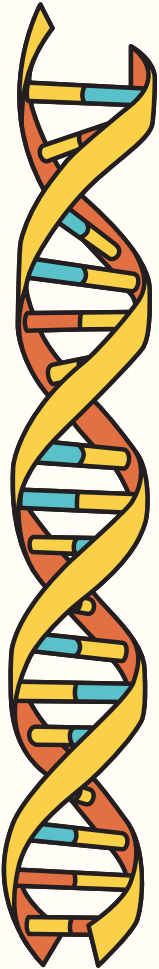
مراجعة وفق الهيكل الوزاري الجديد منهج بريدج

4

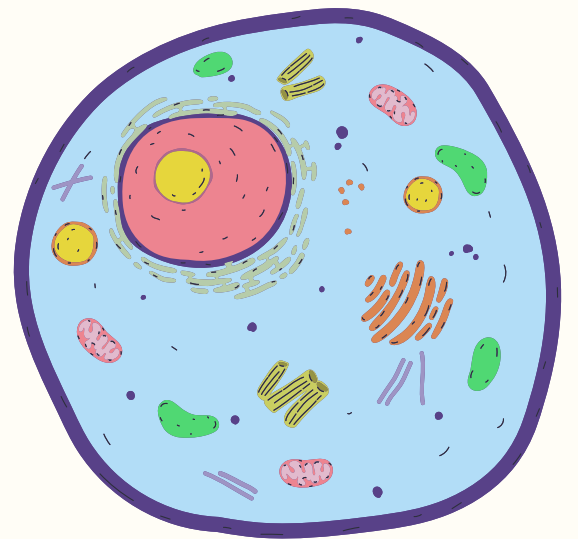
كراسة تدريبية مراجعة وفق الهيكل الوزاري الجديد منهج بريدج

5

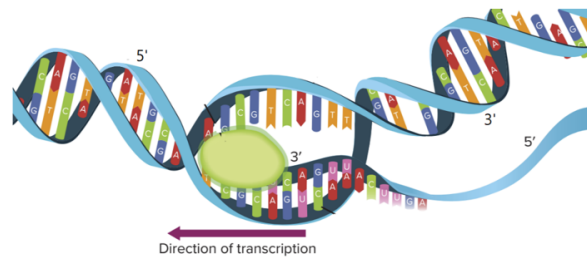
https://t.me/Biology_Explanations



امتحان أحياء انسابير
2024-2025

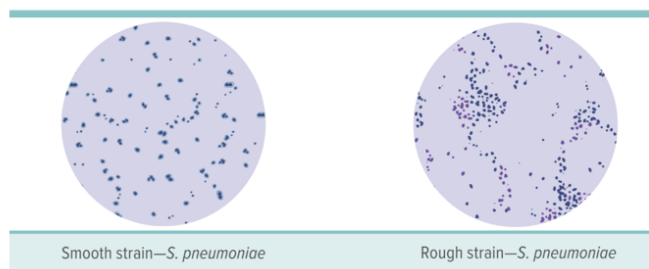


The figure below illustrates the transcription process. Which of the following statements is **false**?



- a. It requires the action of RNA polymerase.
- b. The synthesis of mRNA moves along two DNA strands.
- c. The synthesis of mRNA moves along the DNA strand in its 3' to 5' direction.
- d. The new mRNA is manufactured in a 5' to 3' direction.

The figure below presents the two forms of *Streptococcus pneumonia*. Which scientist discovered that this bacteria (*Streptococcus pneumonia*) changes its form?



a. Avery

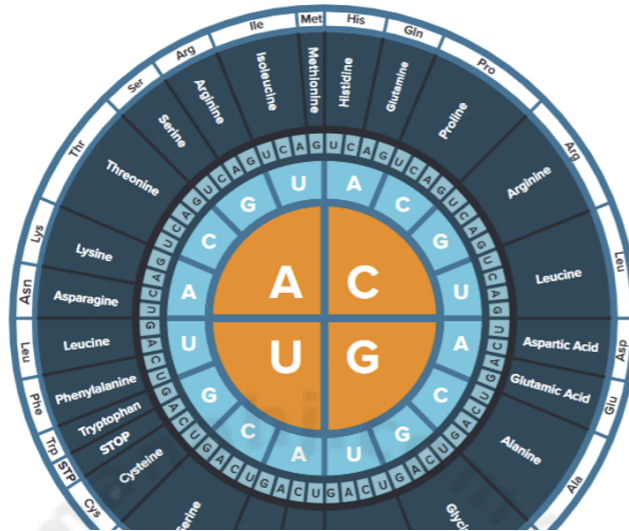
b. Chase

c. Griffith

d. Watson

Use the figure below to determine the amino acid sequence coded by the following mRNA:

5' AUGUGGUUAUGU 3'



a.

methionine, serine, tyrosine, lysine

b.

methionine, tryptophan, leucine, cysteine

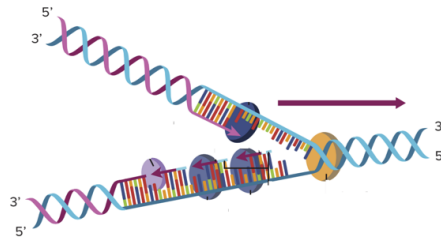
c.

methionine, isoleucine, lysine, arginine

d.

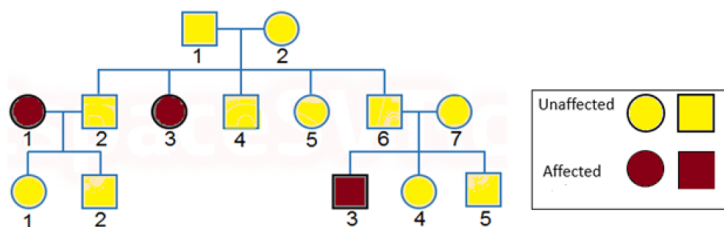
methionine, isoleucine, serine, tryptophan

The figure below shows the process of DNA replication. Which of the following is the function of the enzyme **DNA helicase** during replication?



- a. It bonds mRNA to the original parent strand.
- b. It is responsible for unwinding and unzipping the double helix.
- c. It matches the nucleotide pairs.
- d. It winds up the replicated DNA strand.

Which of the following genetic disorders **cannot** be represented by the inheritance pattern shown in the pedigree below?



a.

Galactosemia

b.

Cystic fibrosis

c.

Huntington's disease

d.

Tay-Sachs disease

Which of the following illustrates the genotype of a male of blood group (A) and having the hemophilia disease?

a.

 $X^H X^h \text{ ii}$

b.

 $X^H Y \text{ I}^A \text{ i}$

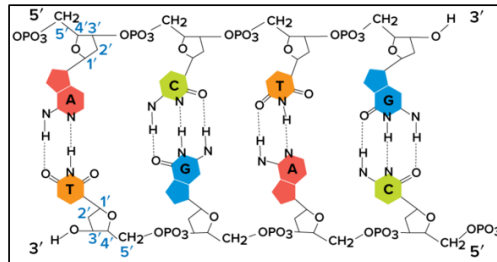
c.

 $X^h X^h \text{ I}^B \text{ i}$

d.

 $X^h Y \text{ I}^A \text{ I}^A$

The figure below represents the structure of the DNA double strand. Which of the following is **false**?



a. The orientation of the sugar on the top strand runs from 5' carbon on the left to the 3' carbon on the right.

b. The orientation of the sugar on the bottom strand runs from 3' carbon on the left to the 5' carbon on the right.

c. The two strands are antiparallel.

d. The pyrimidine bases pair to each other by three hydrogen bonds.

A common housefly has 6 pairs of chromosomes. If two houseflies are crossed, how many possible types of fertilized eggs could result from the random lining up of the pairs?

a.

256

b.

4096

c.

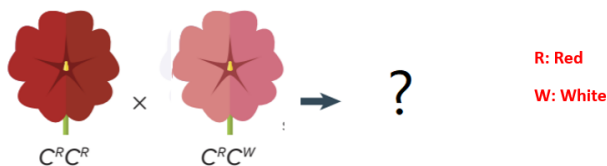
1024

d.

16384



The figure below shows the cross of two snapdragons plants, one red flowered ($C^R C^R$) and the other pink flowered ($C^R C^W$). Which of the following ratios describes the phenotypes of the offspring?



a.

50% red: 50% pink

b.

50% red: 25% pink: 25% white

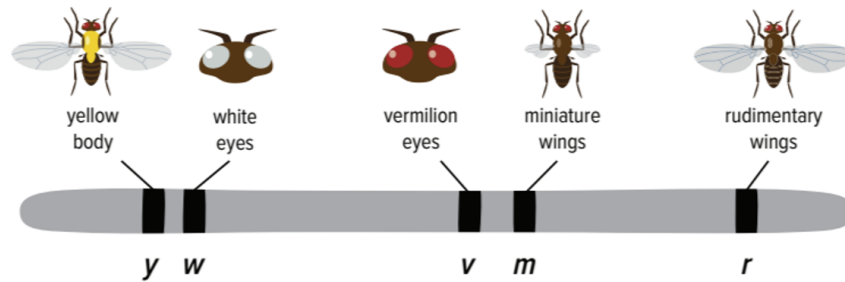
c.

25% red: 50% pink: 25% white

d.

50% pink : 50% white

The figure below shows the first chromosome map created using fruit fly data. Notice that the farther apart the two genes are, the higher the crossover frequency. Which of the following sites has the **highest crossover frequency**?



a.

between v and m

b.

between y and w

c.

between w and m

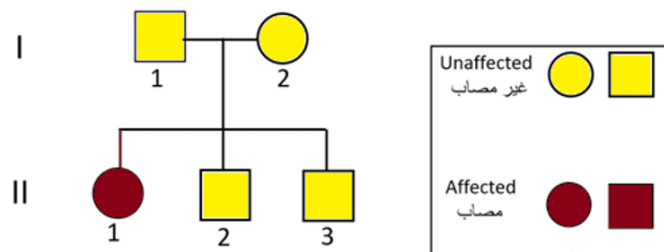
d.

between m and r

In the DNA replication process, which of the following is true about the elongation of the lagging strand in the eukaryotic replication?

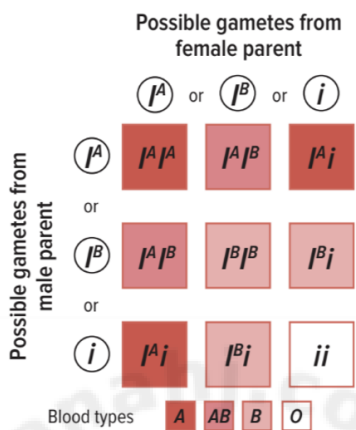
- a. It requires the action of RNA ligase.
- b. It elongate towards the replication fork.
- c. It is synthesized discontinuously in multiple areas.
- d. It does not require a template strand.

The pedigree below illustrates the inheritance of albinism. Based on the pedigree, predict the possible genotypes of the parents I (1) and I (2)?



- a. The genotypes of both parents are Aa.
- b. The genotype of I(1) is Aa and II(2) is AA.
- c. The genotype of I(1) is aa and II(2) is AA.
- d. The genotypes of both parents are aa.

The figure below shows the blood types in Humans. If the father's blood type alleles are I^A and i and the mother's alleles are I^B and i , what is the probability of having a child with type AB blood?



a.

$$\frac{1}{4}$$

b.

$$\frac{1}{2}$$

c.

$$\frac{3}{4}$$

d.

$$\frac{1}{8}$$

The figure below shows the genotype and phenotype possible for rabbit-coat color.
Which of the following represents the allele's right hierarchy of dominance?



Full color
 CC or Cc or Cc^h or Cc^{ch}



Chinchilla
 $c^{ch}c^{ch}$ or $c^{ch}c^h$ or $c^{ch}c$



Himalayan



Albino

a.

$$C > c^{ch} > c^h > c$$

b.

$$C > c > c^h > c^{ch}$$

c.

$$C > c > c^{ch} > c^h$$

d.

$$c > C > c^{ch} > c^h$$

In the guinea pigs shown below, black coat (B) is dominant to brown coat (b). If one black and one brown guinea pigs that are homozygous for the trait of the fur color were used in a test cross, what percentage of the offspring will have black coats?



a. 50 % black

b. 25 % black

c. 75 % black

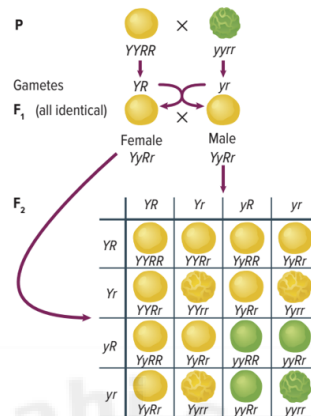
d. 100 % black

In chickens, red comb (R) is dominant to white comb (r). If a homozygous red-combed rooster is mated with a white-combed hen and all the chicks in the F1 generation were kept together as a group for several years. They were allowed to mate only within their own group. What is the expected phenotype of the F2 chicks?

- a. 100% red comb
- b. 100% white comb
- c. 75% red comb and 25% white comb
- d. 50% red comb and 50% white comb

The dihybrid Punnett square below visually presents the combination of the possible alleles of two pea plants.

Which of the following results in four possible gametes, each of which is equally likely to occur?



a.

Independent assortment

b.

Heterozygous recessive

c.

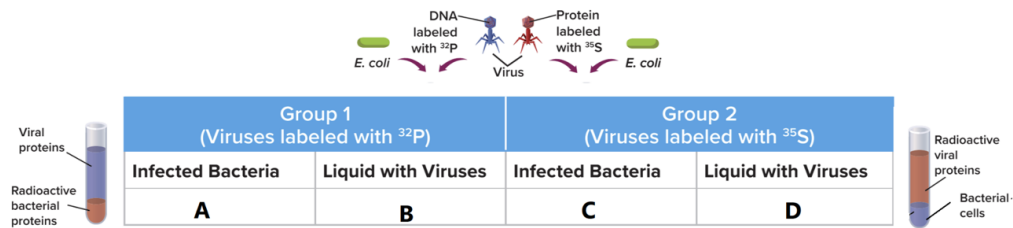
Homozygous dominance

d.

Homozygous recessive

The table below presents the summary of the Hershey-Chase experiment.

Which of the following represents column (A)?



a.

No labeled DNA

b.

Labeled viral DNA (^{35}S) found in the bacteria

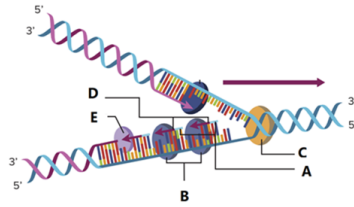
c.

Labeled proteins

d.

Labeled viral DNA (^{32}P) found in the bacteria

The DNA strands are separated during replication and each parent strand serves as a template for new strands, as shown in the figure below. Which of the following represents the enzyme that adds the segment A?



a.

DNA polymerase

b.

Single stranded binding proteins

c.

DNA helicase

d.

RNA primase

Dogs have traits that make them suited for different tasks.

Which trait makes the **German shepherd** in the figure below suitable for performing his tasks?



German shepherd
Service dog

a. Endurance to run long distances

b. High trainability

c. Keen sense of smell

d. Keen sense of sight