

FlexiPrep: Downloaded from flexiprep.com

For solved question bank visit doorsteptutor.com and for free video lectures visit [Examrace YouTube Channel](#)

NCERT Class 10 Chapter 9 Heredity and Evolution CBSE Board Sample Problems Very Short Answer (For CBSE, ICSE, IAS, NET, NRA 2022)

Get unlimited access to the best preparation resource for CBSE : [fully solved questions with step-by-step explanation](#)- practice your way to success.

Question

Name the Father of Genetics.

Solution

Gregor Johann Mendel

Question

What is gene? Where are genes located?

Solution

Gene is a segment of DNA or chromosomes occupying specific position.

Genes are located on chromosomes.

Question

What is the function of a gene?

Solution

Gene is the carrier of the genetic information from one generation to the next.

Question

Newly formed DNA copies may not be identical at times. Give reason.

Solution

Newly formed DNA copies may not be identical at times if there is error or inaccuracies in DNA copying.

Question

What is speciation?

Solution

The process by which new species develop from the existing species is known as speciation.

Question

What is the phenotypic ratio obtained in Mendel's dihybrid cross?

Solution

Ans: 9: 3: 3: 1

Question

Mention any two forms of wild cabbage.

Solution

Ans: Broccoli/cauliflower/kale/cabbage. (Any two)

Question

Who gave the theory of natural selection?

Solution

Ans: Charles Darwin

Question

What are inherited traits?

Solution

Ans: Those which are passed on from parents to Offspring's.

Question

In the following questions, a statement of assertion (A) is followed by a statement of reason (R) . Mark the correct choice as:

Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A) .

Both assertion (A) and reason (R) are true but reason (R) is not the correct explanation of assertion (A) .

Assertion (A) is true but reason (R) is false.

Assertion (A) is false but reason (R) is true.

Both Assertion and Reason are false.

Assertion: Evolution is called as organic evolution.

Reason: Evolution involves the living organisms.

Solution

Ans: (a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion

(A) .

Evolution is called as organic evolution, because it involves the living organisms.

Question

Choose the correct option:

The presence of homologous organs in different animals indicates

- (a) Independent evolution
- (b) Common ancestry
- (c) Different ancestry
- (d) Hierarchy

Solution

Ans: (b) common ancestry

Question

Choose the correct option:

A farmer saves the seeds from his best maize crop plantstosowfornextyear'scrop.

- (a) Artificial selection
- (b) Genetic engineering
- (c) Natural selection
- (d) Variation

Solution

Ans: (a) artificial selection

Question

Mendel performed his experiments on ...

Solution

Ans: Garden pea.

Question

The phenomenon by which a new set of population is formed from the change in frequency of some genes is called _____

Solution

Genetic drift.

Developed by: [Mindsprite Solutions](#)