
Bio301 solved
quiz#1

By VU Expert
Zoologist

Question # 1 of 5 (Start time: 12:16:20 PM, 08 December 2022)

Total Marks: 1

Which one of following is the example of the pleiotropic effects in humans?

Select the correct option

 Reload Math Equations

☐	Cystic fibrosis
☐	Sickle cell anemia
☒	All of the above option
☐	Huntington disease

Click to Save Answer & Move to Next Question

Question # 2 of 5 (Start time: 12:17:34 PM, 08 December 2022)

Total Marks: 1

_____ is an individual's observable traits, such as height, eye color, and blood type

Select the correct option

 Reload Math Equations

☐

Genotype

☐

Trait

☐

Genetics

☒

Phenotype

Click to Save Answer & Move to Next Question

Proteins that are used to package DNA

Select the correct option

 Reload Math Equations

☐

Nucleosomes

☒

Histones

☐

Chromatins

☐

Telomerases

Click to Save Answer & Move to Next Question

Question # 4 of 5 (Start time: 12:20:02 PM, 08 December 2022)

Total Marks: 1

Offspring of same variety is termed as

Select the correct option

 Reload Math Equations

☒	True breed
☐	Hybrid
☐	Cross breed
☐	Line breed

Click to Save Answer & Move to Next Question

Question # 5 of 5 (start time: 12:21:18 PM, 08 December 2022)

Total Marks: 1

Mendel determined the segregation of alleles at two genes loci based on _____.

Select the correct option

 Reload Math Equations

☐

None of these

☐

Monohybrid cross

☐

Trihybrid cross

☒

Dihybrid cross

Click to Save Answer & Move to Next Question

BIO301 - Essentials of Genetics (Quiz #01)

Question # 1 of 5 (**Start time: 12:26:19 PM, 08 December 2022**)

_____ is also called as sub discipline of Mendelian genetics

Select the correct option

☒	Transmission genetics
☐	Molecular genetics
☐	Population genetics
☐	Quantitative genetics

BIO301 – Essentials of Genetics (Quiz #01)

Question # 2 of 5 (Start time: 12:27:19 PM, 08 December 2022)

Which one of the following is not true about organism with their chromosome numbers?

Select the correct option

☒	Angiosperms have 78 chromosomes
☐	Protozoa having more than 300 chromosomes
☐	Round worm has only two chromosomes
☐	Fungi have 3-8 chromosomes

BIO301 - Essentials of Genetics (Quiz #01)

Question # 3 of 5 (Start time: 12:28:23 PM, 08 December 2022)

Variations that are genetically _____ and cannot be altered

Select the correct option

☒	Controlled
☐	Disturbed
☐	Uncontrolled
☐	Change

The type of inheritance appears in AB blood group phenotype?

Select the correct option

☒	Co-dominance
☐	All of these
☐	Incomplete dominance
☐	Complete dominance

BIO301 – Essentials of Genetics (Quiz #01)

Question # 5 of 5 (Start time: 12:30:03 PM, 08 December 2022)

Which one of the following statement is not True about Co-dominance?

Select the correct option

☐	Parallel behavior appears of both allele
☐	Both alleles are expressed in a heterozygous individuals
☒	Both alleles are expressed in a homozygous individuals
☐	A situation, when both alleles appear in the phenotype

Question # 2 of 5 (Start time: 12:38:38 PM, 08 December 2022)

Which of the following statements regarding Bar Bodies is true

Select the correct option

☐ Y-chromosome is inactivated in male

☒ X-chromosome is inactivated in female

☐ X-chromosome is inactivated in male

☐ XY-chromosome inactivated in male

Question # 3 of 5 (Start time: 12:39:57 PM, 08 December 2022)

Offspring of same variety is termed as

Select the correct option

☐	Line breed
☐	Cross breed
☐	Hybrid
☐	True breed

Question # 4 of 5 (Start time: 12:40:27 PM, 08 December 2022)

Which of the following statements concerning prokaryote genomic features is incorrect?

Select the correct option

☐ Prokaryotes have higher gene density as compared to eukaryotes

☒ Prokaryotes have lower gene density as compared to eukaryotes

☐ Prokaryotes have less number of genes as compared to eukaryotes

☐ Prokaryotes have less genome size as compared to eukaryotes

Question # 1 of 5 (Start time: 12:52:15 PM, 08 December 2022)

_____ was considered as "The Father of Genetics"?

Select the correct option

☐ James Watson

☐ Francis Crick

☒ Gregor Johann Mendel

☐ Charles Darwin

BIO301 – Essentials of Genetics (Quiz #01)

Question # 4 of 5 (Start time: 12:53:43 PM, 08 December 2022)

An example of inherited variation is _____

Select the correct option

☐	Obesity
☐	Language
☐	Finger prints
☐	Athletic skills

Question # 3 of 5 (start time: 01:37:45 PM, 08 December 2022)

When alleles at two gene loci segregate together and are transmitted as a unit, what form of segregation occurs?

Select the correct option



- | | |
|----------------------------------|---|
| ☐ | Either Dependent Segregation or Independent Segregation |
| ☐ | Independent Segregation |
| ☒ | Dependent Segregation |
| ☐ | Neither Dependent Segregation nor Independent Segregation |

Click to Save Answer & Move to Next Question

Question # 5 of 5 (Start time: 03:05:48 PM, 08 December 2022)

Total Marks: 1

_____ is not the property of Garden Pea plant that was used by Gregor Mendel for his experiment?

Select the correct option

 Reload Math Equations☐

Self and cross pollination

☒

Long generation time

☐

Produces many offspring

☐

Seed in a variety of shapes and colors

Click to Save Answer & Move to Next Question

Question # 3 of 5 (Start time: 03:04:26 PM, 08 December 2022)

Total Marks: 1

Which of the following statements accurately describes Gregor Mendel's inheritance model?

Select the correct option

[Reload Math Equations](#)☒

A clear dominant-recessive relationship between alleles

☐

All of these

☐

Each trait is controlled by multiple genes

☐

Each gene have many alleles

Question # 2 of 5 (Start time: 02:47:19 PM, 08 December 2022)

Total Marks: 1

In the parental generation, when Mendel crossed a true-breeding pea strain that produced smooth seeds with one that produced wrinkled seeds then result was _____

Select the correct option

 Reload Math Equations

☐ All the F1 progeny seeds were blended smooth and wrinkled

☒ All the F1 progeny seeds were smooth

☐ All the F1 progeny seeds were wrinkled

☐ Half of the F1 progeny seeds were smooth

Click to Save Answer & Move to Next Question

BIO301 - Essentials of Genetics (Quiz #01)

Question # 5 of 5 (Start time: 12:55:08 PM, 08 December 2022)

Which of the organisms below has 16 chromosomes?

Select the correct option

- | | |
|-----------------------|--------------------|
| ☐ | Tomato and Tobacco |
| ☐ | Onion and Mold |
| ☐ | Rice and Maize |
| ☐ | Carrot and Onion |