

In case of two gene interaction, the gene which is masking the expression of another is calledand the gene whose expression is masked is called.....

- a. Dominant, recessive
- b. Recessive, dominant
- c. Epistatic, hypostatic
- d. Hypostatic, epistatic

Which of these coat colours of rabbits have dominant allele in both gene locus?

- a. Agouti
- b. White
- c. Black
- d. Albino

-- --- --

(Descriptive)

Time : 1 hr. 15 mins.

Marks : 25

[Answer question no.1 & any two (2) from the rest]

- | | |
|---|----------|
| 1. Define penetrance. Describe incomplete penetrance with suitable example. | 5 |
| 2. What is the difference between Mendelian and Non Mendelian inheritance? Write briefly about co-dominance and incomplete dominance with one suitable example. | 2+4+4=10 |
| 3. Why does chromosomal abnormality take place? Explain the various numerical chromosomal abnormalities with necessary examples. | 2+6+2=10 |
| 4. Explain the inheritance of multiple alleles with reference to ABO blood group in human being. | 10 |
| 5. Explain extrachromosomal inheritance of Kappa particles in Paramecium with suitable diagram. | 10 |

= = *** = =