(2)

(20518)

Roll No.

B. Sc. (Biotech.)-I Year

NS-3459

B. Sc. (Biotechnology) Examination, May 2018 Genetics

(B-105)

(New)

Time: Three Hours]

https://www.ccsustudy.com

[Maximum Marks: 50

Note: Answer any Five questions. All questions carry equal marks.

> Describe Mendel's laws of inheritance with the help of suitable examples. 10

2. Write an essay on ABO blood group inheritance in 10 man.

> Discuss the various syndromes known to be due to numerical changes in chromosomes in human beings. 10

Write an essay on mutation.

10

What is sex determination? With suitable examples explain chromosome theory of sex determination. 5+5

6. Describe coupling and repulsion hypothesis. 5

> Give the differences between complementary genes and supplementary genes.

V

https://www.ccsustudy.com

https://www.ccsustudy.com

Write short notes on the following:

21/2×4

https://www.ccsustudy.com

Incomplete dominance

Factor hypothesis

Epistasis (c)

Codominance.

What is Lyon's hypothesis? (a)

What is Karyotype? (b)

What are chromosomes? Describe nucleosome 9. model of chromosomes. 10

What is Karyotype? How the study of karyotype 10. helps in identification of various chromosomal 10 anomalies in man?

NS-3459-2-

https://www.ccsustudy.com

https://www.ccsustudy.com