



RAN-7039

B.Sc. Biotechnology (Semester II) Examination

March / April - 2019

BT-04 : Fundamental of Genetics

Time: 2 Hours]

[Total Marks: 50

સૂચના : / Instructions

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the details of signs on your answer book

Name of the Examination:

B.Sc. Biotechnology (Semester II)

Name of the Subject :

BT-04 : Fundamental of Genetics

Subject Code No.: 7 0 3 9

Seat No.:

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
----------------------	----------------------	----------------------	----------------------	----------------------	----------------------

Student's Signature

Q.1 Define any Four

08

- a. Genome
- b. In situ hybridization
- c. Sex linked genes
- d. Primer
- e. Transfection

Q.2 Answer any Two

14

- a. Describe chromosome mapping and its applications.
- b. State Mendel's law of segregation.
- c. Explain how genetic variability originated through mutations.

Q3 Answer any Two

14

- a. Explain DNA as a genetic material in animal cells.
- b. Semiconservative replication of DNA.
- c. Give detail account on structure of DNA.

Q.4 Answer any Two

14

- a. Differentiate heterochromatin and euchromatin.
 - b. State different types of chromosomal banding patterns.
 - c. Justify- Nucleosome: subunit of all chromatin.
-