



RAN - 1903001102030002

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B. Sc. Biotechnology Semester II Examination

March / April - 2019

BT-04: Fundamental of Genetics

Time: 2 Hours]

[Total Marks: 50

सूचना : / Instructions

नीचे दशविवेक निशानीवाणी विगतो उत्तरवली पर अवश्य लपववी.

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.: **1903001102030002**

Seat No.:

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Student's Signature

Q.1 Answer briefly (Any Four):

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- What is Karyotype?
- What is translocation?
- G banding.
- Autosomal Recessive Disorders.
- Polytene chromosome.

Q.2 Answer any Two:

14

- State Mendel's law of independent assortment with suitable example.
- Explain Hershey-Chase experiment which proves that DNA act as genetic material in living organisms.
- Differentiate between Lampbrush chromosome and Polytene chromosome.

Q.3 Answer any Two: 14

- a. How DNA is packed in nucleus? Explain in detail.
- b. Explain:
 - a) Euchromatin
 - b) Heterochromatin
- c. Give an account of the abnormalities resulting due to chromosomal deletions.

Q.4 Answer any Two: 14

- a. Discuss in detail application of Aneuploidy and Euploidy.
 - b. Discuss the disorders resulting from chromosomal trisomy.
 - c. Explain Down syndrome using robertsonian translocation.
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