



RAN - 1903000202030111

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B.Sc. (Sem. II) Examination

March / April - 2019

Bioscience

201 : Basic 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. (Sem. II)

Name of the Subject :

Bioscience 201 : Basic Genetics

Subject Code No.: **1903000202030111**

Seat No.:

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Student's Signature

- (1) Draw neat and labeled diagrams wherever necessary.
- (2) Figures to the right indicate full marks of the question.

Q. 1 Answer as directed.

12

1. Explain: Monosomy.
2. What is co-dominance?
3. Describe in brief Y-linked inheritance.
4. What are jumping genes?
5. Which blood group system is called universal? Why?
6. Define: a) Pseudo gene, b) Phenotype.

Q. 2 Answer any two of the followings.

14

1. Describe in detail over lapping & included gene.
2. Explain in detail duplication and translocation.
3. Write a note on autosomal abnormalities.

Q. 3 **Answer any two of the followings.** **14**

1. What is sex linked inheritance? Explain in detail color blindness.
2. Explain in brief chromosomal theory of sex determination.
3. Explain in brief law of dominance & law of segregation with monohybrid cross.

Q. 4 **Write short note: (Any Two)** **10**

1. Test cross.
 2. Fine structure of gene.
 3. G & Q - Banding technique.
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