



SE-3683

M. Sc. (Integrated Biotechnology) Examination
April / May – 2011
IBT-403 : Genetics

Time : 3 Hours]

[Total Marks : 70

Instructions :

नीचे दशांशवैक निशानीवाणी विगतो उत्तरवडी पर अवश्य कभवी.
Fillup strictly the details of signs on your answer book.

Name of the Examination :
M. Sc. (Integrated Biotechnology)

Name of the Subject :
IBT-403 : Genetics

Subject Code No. : 3 6 8 3 Section No. (1, 2.....) : NIL

Seat No. :

Student's Signature

1. Figures to the right indicate full marks of the question
2. Draw neat and labeled diagrams whenever necessary
3. Both sections must be written in separate answer books

Q 1 Attempt any two 18

- 1) What is developmental noise? Discuss the interactions between genes, environment and the organisms
- 2) Explain sex linked inheritance with respect to any X-linked recessive disorder
- 3) What is mutation, explain and describe its types

Q 2 Answer any three 18

- 1) Describe Mendal's experiments and comment on his conclusion.
- 2) Elaborate on Multiple allelism
- 3) Explain epistasis
- 4) Describe codominance

Q 3 Describe any two 18

- 1) Generalized transduction
- 2) Transformation
- 3) End problem replication

Q 4 Write short notes on any four 16

- 1) Genetics variation
- 2) Role of t-RNA
- 3) Protein targeting
- 4) Catabolite repression
- 5) Lac operon