



S-2622

M. Sc. - I (Bioscience) (Sem. I) Examination

March / April - 2011

BIOS - 102 : Genetics & Molecular Biology

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

नीचे दशांशवैध निशानोंवाणी विगतो उत्तरवडी पर अवश्य क्षभवी.
Fillup strictly the details of signs on your answer book.

Name of the Examination :
M. Sc. - 1 (Bioscience) (Sem. 1)

Name of the Subject :
BIOS - 102 : Genetics & Molecular Biology

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

Seat No. :

Student's Signature

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

- 1 Describe in detail any **two** : 18
(a) Post mendelian events in the field of genetics
(b) Multiple alleles vs polygenetic inheritance
(c) Griffith's contribution
- 2 Elaborate on following any **two** : 18
(a) Intiation and regulation of DNA replication
(b) Watson and Crick's DNA model
(c) Mechanisms of DNA repair
- 3 Explain in detail any **two** : 18
(a) Post transcriptional modifications
(b) Role of ribosomes in polypeptide synthesis
(c) Jacob monad's contribution
- 4 Write notes on any **two** : 16
(a) Restriction endonucleases
(b) Screening methods in rDNA technology
(c) PCR.