



**SB-0703**

**Second Year B. Sc. Examination**

**March/April – 2011**

**Bioscience Paper : III  
(New Course)**

Time : 3 Hours]

[Total Marks : 70

**Instructions :**

(1)

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

Name of the Examination :  
**S. Y. B. Sc.**

Name of the Subject :  
**Bioscience Paper : 3 (New)**

Subject Code No. : **0 7 0 3** Section No. (1, 2,.....): **NIL**

Seat No. :

Student's Signature

- (2) Figures to the right indicate full marks.  
(3) Draw neat and labelled diagram wherever necessary.

- 1 Answer as directed : 12
- (i) Explain - splicing of gene.  
(ii) Describe in brief interface.  
(iii) What is chromosomal non-disjunction ?  
(iv) Enlist the functions of thrombocytes.  
(v) Describe - Klinefelter's syndrome.  
(vi) Define  
(a) Gene  
(b) Anaemia

2 Write an essay on "Chloroplast." 15  
**OR**

- 2 (i) Describe in detail ultrastructure of mitochondrion. 9  
(ii) Write a detail note on endoplasmic reticulum. 6

3 Write an essay on : 14  
"Multiple alleles"

**OR**

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**1**

**[Contd...**

- 3** (i) Describe in detail genetic code. **8**  
(ii) Write a detail note on haemophilia. **6**
- 4** Answer any **two** of the followings : **14**  
(i) Describe in brief structure and functions of haemoglobin.  
(ii) Write a detail note on blood plasma.  
(iii) Describe in detail osmoregulation in human.
- 5** Write short notes : (any **three**) **15**  
(i) Structure of membrane  
(ii) Abnormal haemoglobin  
(iii) Golgi body  
(iv) Measurement of blood pressure  
(v) Transformation.
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