



**J-0829**

**Second Year B. Sc. Examination**

**March / April – 2013**

**Bioscience : Paper - III**

*(Cytology Genetics & Phsiology)*

*(Old Course)*

Time : Hours]

[Total Marks : 70

**Instructions :**

(1)

नीचे दशांशों में निशानीवाणी विगतो उत्तरवली पर अवश्य कभवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="S. Y. B. Sc."/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="Bioscience : Paper - III (Old)"/>	<input type="text"/>
Subject Code No. : <input type="text" value="0"/> <input type="text" value="8"/> <input type="text" value="2"/> <input type="text" value="9"/>	Section No. (1, 2,.....) : <input type="text" value="Nil"/>
Student's Signature	

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

1 Answer a directed. 12

- (1) Explian :  $F_1$  particle.
- (2) Describe in brief erythrocytes.
- (3) Enlist the functions of leucocytes.
- (4) What is chromosomal abnormalities ?
- (5) Describe in brief DNA polymerase.
- (6) Define :
  - (a) Leucocytosis.
  - (b) Multiple allele.

2 DNA is the genetic material - Justify the statement. 15

OR

2 Write an essay on Morgan's classical concept of gene. 15

- 3** Answr any two of the following . **14**
- (1) Explain in detail ultrastructure & functions of E.R.
  - (2) Write a note on functions of m mitochondria and chloroplast.
  - (3) Describe in brief various phases of mitosis.
- 4** Write note on : (any two) **14**
- (1) Haemoglobin.
  - (2) Blood plasma.
  - (3) Regulation of human body temperature.
- 5** Write short notes : (any three) **15**
- (1) Thrombocyte.
  - (2) Okazaki fragments.
  - (3) Types of chromosome.
  - (4) Structure of chloroplast.
  - (5) Sickle cell anaemia.
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