



RR-0806
Third Year B. Sc. Examination
March / April – 2010
Bioscience : Paper - IX

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

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| <p>નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : T. Y. B. Sc.</p> <p>Name of the Subject : Bioscience - 9</p> <p>Subject Code No. : 0 8 0 6 Section No. (1, 2,.....) : Nil</p> | <p>Seat No. : <input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/></p> <div style="border: 1px solid black; border-radius: 15px; height: 80px; width: 100%; display: flex; align-items: center; justify-content: center; margin-top: 10px;">Student's Signature</div> |
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- (2) Draw neat and labelled diagram wherever necessary.
- (3) Figures to the right indicate full marks of the question.

1 Answer the following in brief : 12

- (a) What is meant by thalassaemia?
- (b) Who developed monoclonal antibody technique? In which year?
- (c) Why compatibility test is to be done?
- (d) Differentiate leucocytosis and leukemia.
- (e) Name two enzymes used in ELISA.
- (f) Give name of any four pretransfusion test done for screening of donor.

2 Write an essay on : 15

"Antigen, their properties, types and specificity.

OR

Explain : RIA and ELISA with their application.

3 Write an essay on : **14**
"Disorders of white blood cells"

OR

- (i) Describe ABO blood grouping system
- (ii) Explain the method and significance of ESR determination.

4 Answer any **two** of the following : **14**

- (i) Write a note on - Preservation and Storage of blood and blood component.
- (ii) Describe in detail ABO blood grouping system.
- (iii) Write a note on transfusion complication.

5 Write short notes on : (any **three**) **15**

- (i) PCV
- (ii) Passive agglutination
- (iii) CFT
- (iv) Sickle cell anaemia
- (v) IgG.
