



SB-0704
Second Year B.Sc. Examination
March/April – 2011
Bioscience : Paper - IV

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

<p>नीचे दृश्याविवेक निशान्तीवाणी विगतो उत्तरवडी पर अवश्य लखवी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : S. Y. B.Sc.</p> <p>Name of the Subject : Bioscience : Paper - 4</p> <p>Subject Code No. : 0 7 0 4 Section No. (1, 2,.....): NIL</p>	<p>Seat No. : <table border="1" style="width: 100%; height: 20px; border-collapse: collapse;"><tr><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td></tr></table></p> <div style="border: 1px solid black; border-radius: 15px; padding: 10px; width: 100%; text-align: center; margin-top: 10px;">Student's Signature</div>						

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

- 1 Answer as directed : 12
- (i) Explain : Electromagnetic radiation.
(ii) Describe in brief data and table.
(iii) What is brownian movement ?
(iv) Describe ring structure of sugar.
(v) Enlist any four essential amino acids.
(vi) Define :
(a) pH
(b) Reversible colloids.

- 2 Write an essay on RNA. 15

OR

- 2 Describe in detail the enzymes with special emphasis on its classification and mechanism of enzyme action. 15

- 3 Describe in brief principle and types of chromatography. 14
Discuss in brief paper chromatography.

OR

- 3** Describe in detail applications of : **14**
- (i) Electrophoresis
 - (ii) Radioisotopes
- 4** Answer any **two** of the followings : **14**
- (i) Describe in detail importance of graphical representation of data.
 - (ii) Write a note on coefficient of variation
 - (iii) Explain in detail median with suitable example.
- 5** Write short notes : (any **three**) **15**
- (i) Phospholipid
 - (ii) Disaccharides
 - (iii) Visible spectrum
 - (iv) Chi-squares
 - (v) Nucleotides
-