



RF-3439-40

M. Sc. (Part - I) Examination
April / May - 2010
Medical Technology : Paper - IV
(Enzymology & Endocrinology)

Time : 3 Hours]

[Total Marks : 54

Instructions :

(1)

नीचे दर्शावेक निशानीवाणी विगतो उत्तरवही 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="M. Sc. (PART - 1)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="MEDICAL TECHNOLOGY - 4"/>	<input type="text"/>
Subject Code No. : <input type="text" value="3"/> <input type="text" value="4"/> <input type="text" value="3"/> <input type="text" value="9"/>	<input type="text"/>
Section No. (1, 2,.....) : <input type="text" value="NIL"/>	<input type="text"/>
	Student's Signature

- (2) Answer all the questions.
(3) Illustrate your answer with neat diagrams whenever necessary.
(3) Figures to the right indicate full marks.

- 1 Discuss the following : 12
(a) Ribozyme
(b) Specificity of Enzyme.

OR

- 1 Discuss the following enzyme purification methods. 10
(a) Column chromatography
(b) Centrifugation.
- 2 Define and discuss enzyme inhibitions and their effect 10
on K_m and V_{max} values.

OR

- 2 Define and discuss activation energy and transition state? 10
Explain the mechanism of enzyme action.
- 3 Define the allosteric enzyme and discuss the allosteric 10
regulation.

OR

- 3 Discuss various methods of enzyme immobilization. 10

- 4 Discuss the functions and the significance of the following : **10**
- (a) Acid phosphatase
 - (b) Creatine Kinase.

OR

- 4 Discuss hypothalamus pituitary system. **10**
- 5 Write short notes on any three of the following : **12**
- (a) Insulin
 - (b) Isoenzymes
 - (c) Mechanism of hormone action
 - (d) Dehydrogenase
 - (e) Coenzymes.
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