



S-2669

M. Sc. (Sem. I) (Med. Tech.) Examination
March / April – 2011
MT - 105 : Enzymology

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

नीचे दर्शायेव निशानीवाणी विगतो उत्तरवही पर अवश्य कपवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
M. Sc. (Sem. 1) (Med. Tech.)	<input type="text"/>
Name of the Subject :	<input type="text"/>
MT - 105 : Enzymology	<input type="text"/>
Subject Code No. : <input type="text"/> 2 <input type="text"/> 6 <input type="text"/> 6 <input type="text"/> 9	<input type="text"/>
Section No. (1, 2,.....): <input type="text"/> Nil	<input type="text"/>
	Student's Signature

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

- 1 Write on any **two** the following : 14
(a) Classification of enzymes.
(b) Ribozymes.
(c) Enzyme specificity.
- 2 Discuss any **two** of the following : 14
(a) Stabilization of the transition state in enzyme catalyzed reaction.
(b) Michaelis menten equation.
(c) Meaning of km and its measurement.
- 3 Write on any **two** of the following : 14
(a) Hydroperoxidases in Biological oxidation.
(b) Isoenzymes of lactate dehydrogenase (LDH).
(c) Isoenzymes of Alkaline phosphatase.

- 4 Write short notes on any **three** of the following : **12**
- (a) Benefits of enzyme immobilization and properties of immobilized enzymes.
 - (b) Sequential reaction.
 - (c) Ping pong reaction.
 - (d) Effects of Temperature and pH on enzyme catalyzed reactions.
 - (e) Physical adsorption on to an inert carrier.
- 5 Write on any **two** of the following : **16**
- (a) Reversible enzyme inhibitions.
 - (b) Differences between various types of regulation.
 - (c) Regulation of enzyme activity by covalent and non-covalent modifications.
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