



DMM-1676

M. Sc. (Int. Biotechnology) (Sem. IV) Examination

March / April - 2016

BT-09 : Enzymes & Co-enzymes

(Core-1, Course-2)

Time : Hours]

[Total Marks : 50

Instruction :

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fillup strictly the details of signs on your answer book.

Name of the Examination :
M. Sc. (Int. Biotechnology) (Sem. IV)

Name of the Subject :
BT-09 : Enzymes & Co-enzymes (Core-1, Course-2)

Subject Code No. : 1 6 7 6 Section No. (1, 2,.....): Nil

Seat No. :
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Student's Signature

1 Give answers to any four : 8

- (1) Define : heterotrophic effect.
- (2) What is group specificity? Give one example of it.
- (3) $E+S \rightarrow ES+I \rightarrow ESI$, which type of inhibition follow this equation ?
- (4) What is IUBM?
- (5) Alcohol dehydrogenase requires which coenzymes for reaction ?

2 Attempt any two : 14

- (1) Classification of enzymes.
- (2) Models explain the mechanism of enzyme action.
- (3) Reaction catalysed by enzyme using TPP as co-enzyme.

- 3 Explain in detail any two : 14**
- (1) M-M equation with graphs.
 - (2) Different types of Enzyme inhibition
 - (3) Mechanism of Bi-substrate reaction.
- 4 Write note on any two 14**
- (1) Role of NAD and NADP in metabolism.
 - (2) Mechanism of enzyme regulation.
 - (3) Kinetics of allosteric enzymes.
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