

Seat No.	
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B.Sc. (Semester - III) (CBCS) Examination Oct/Nov-2019
Biotechnology
BIOENERGETICS AND ENZYMOLOGY

Day & Date: Friday, 11-10-2019
 Time: 03:00 PM To 05:30 PM

Max. Marks: 70

- Instructions:** 1) All questions are compulsory.
 2) Figures to the right indicate full marks.
 3) Draw neat and labeled diagrams.

Q.1 Fill in the blanks by choosing correct alternatives given below.

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- 1) The _____ factor is responsible for inhibition of enzymatic reaction during feedback inhibition.
 - a) enzyme
 - b) end product
 - c) temperature
 - d) substrate
- 2) Epimerase is class of _____ enzyme.
 - a) Oxidoreductase
 - b) Ligase
 - c) Transferase
 - d) Isomerase
- 3) In an open system, the process should be _____.
 - a) Reversible
 - b) irreversible
 - c) dependant of enthalpy
 - d) exergonic
- 4) Bond specificity is also called _____.
 - a) Relative specificity
 - b) size specificity
 - c) group specificity
 - d) structural specificity
- 5) Optimal temperature for enzyme to work in human body is _____.
 - a) 30°C
 - b) 32°C
 - c) 35°C
 - d) 37°C
- 6) According to lock and key model substrate act as a _____.
 - a) Key
 - b) lock
 - c) activator
 - d) inhibitor
- 7) In non competitive inhibition _____ remains constant as reaction proceeds.
 - a) Vmax
 - b) Km
 - c) V0
 - d) ½ Vmax
- 8) Pancreatic zymogens are only activated when they reach _____.
 - a) Stomach
 - b) pancreas
 - c) small intestine
 - d) large intestine
- 9) The metal ion _____ works as an activator of trypsinase.
 - a) Iron
 - b) Copper
 - c) Potassium
 - d) Calcium
- 10) Abzyme is an _____.
 - a) Isoenzyme
 - b) allosteric enzyme
 - c) proenzyme
 - d) antibody with catalytic activity

