

YEAR 12 BIOLOGY WORKSHEET QUESTIONS

TOPIC: ENZYMES

NAME: _____

1. Enzymes are catalysts which catalyse specific reactions by lowering their activation energy. The lock and key and the induced fit models have been used to explain the way in which enzymes work.

(a) Explain what is meant by activation energy.

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(1)

(b) (i) Describe how the lock and key model can be used to explain how an enzyme breaks down a substrate molecule.

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(3)

(ii) Describe how the induced fit model differs from the lock and key model of enzyme action.

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(1)