

Candidate's Name.....

Signature:.....

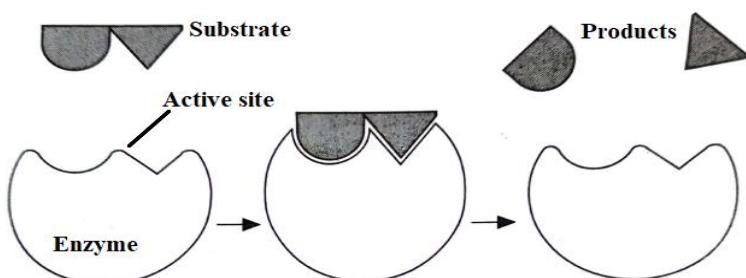


KING'S COLLEGE, BUDO
Uganda Advanced Certificate of Education
S6 BIOLOGY P530/1 TEST 3
(THEORY)
1 hour
Attempt *all* questions

1. (a) What is meant by **enzyme denaturation?** **(3 marks)**

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- (b) The figure below shows the mechanism of the working of an enzyme.



With reference to the figure above, explain the;

- (i) specificity of an enzyme. **(03 marks)**

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(i) mechanism of enzyme action. **(04 marks)**

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2. (a) Why is the structure of the **plasma membrane** of a cell

(i) described as **partially permeable?** **(02 marks)**

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(ii) modelled as **fluid mosaic?** **(03 marks)**

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(b) Explain the advantages of the development of membrane bound organelles
in eukaryotic cell. **(03 marks)**

(i).....

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(ii).....

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(iii).....

(c) State two organelles in eukaryotic cells which are not membrane bound. **(02 marks)**

3. (a) What is meant by the term **cell cycle?** **(02 marks)**

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(b) Briefly explain the significance of any **four** events that occur

(i) between two successive **mitotic** divisions? **(04 marks)**

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(ii) during **prophase I of meiosis.** **(04 marks)**

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END