

STCLSS Biology  
P530/1  
2 hours 30 minutes  
September 2025



**UGANDA ADVANCED CERTIFICATE OF EDUCATION**

**MID OF TERM III EXAMINATIONS 2025**

**S.5 BIOLOGY**

**P530/1**

**Time:** 2 hours 30 minutes

**INSTRUCTIONS TO STUDENTS:**

- This paper consists of **nine** examination items. It has two sections: **A** and **B**.
- Section **A** has **six** compulsory items. Responses to this section should be written in the spaces provided.
- Section **B** has **three** items. Answer **two** items from this section. Responses to this section should be written in the spaces provided.
- Answer **eight** items in all.
- Any additional item(s) answered will not be scored.

<b>FOR SCORER'S USE ONLY</b>									
<b>Item</b>	1	2	3	4	5	6	7	8	9
<b>Score</b>									









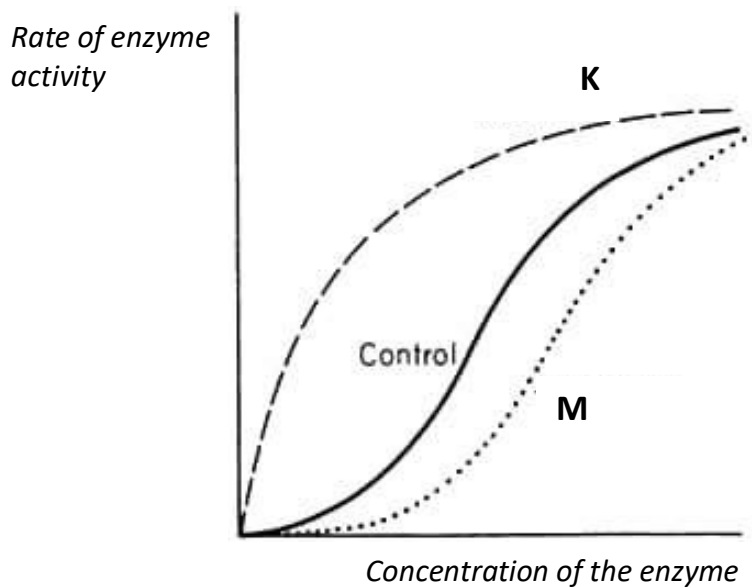


**SECTION B**

(Choose and answer **two** items from this section, all items carry equal marks in this section.)

**Item 7**

Quality Chemicals Ltd. (Qcil), a Ugandan pharmaceutical company, produced an enzyme that breaks down its sewage, containing cellulose and lignin materials. The enzyme mixture contains another substance, **K**, and it is effective for the treatment of sewage when used at a suitable temperature and pH of sewage. However, during the trials, it was observed that the presence of a certain substance **M** from a nearby chemical plant contaminated the sewage, further impeding the efficiency of the enzyme being manufactured. The results for the rate of enzyme activity of their investigation were represented as shown on the graph below. The control shows the activity of the enzyme without any substance.



**Task**

a) (i) Identify the enzyme regulator substances K and M.

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(ii) Describe why the factory decided to use enzymes in the treatment of sewage.

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