

P530/2

S 6 Practical

Paper 2

April/may 2026

2 Hrs 15 min

Uganda Advanced Certificate of Education

END OF TERM-1 EXAMS – 2026

BIOLOGY PRACTICAL

INSTRUCTIONS

1. Answer all items in the paper
2. All drawings must be made using sharp pointed pencils
3. Answers must only be written in spaces provided.

ITEM TWO (20 SCORES)

2. Mr Damba is a *laboratory technician* who oftenly collects specimens for laboratory practicals. He usually finds it hard to obtain some specimens during day as they are normally dormant in hiding and only appear at night which makes his work difficult. Some other specimens however are freely got during any time of the day.

When he tried to establish the cause, the anatomy lecturer at Makerere university refered him to the structural modifications in the lungs and heart of organisms and provided him with an image of the heart of *specimen E* ;

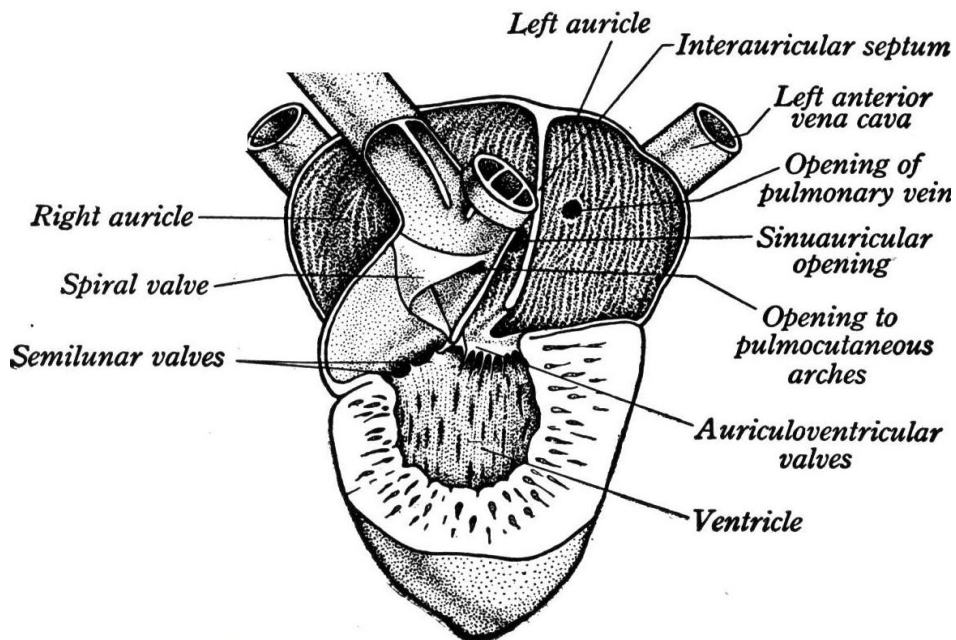


Fig 01 showing a toad's heart and section through the single ventricle

Task;

a) Using specimen T, and anatomical structure of E above, describe the evolutionary advancements in the structure of the heart to support;

i) High activity in organism provided;

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c) In the space below make a support drawing of the right lung to (b) above;

END

CONFIDENTIAL;

- 1) Freshly killed rat **T**
- 2) 20ml of **0.1%** Hydrogen peroxide **W**
- 3) Filter paper
- 4) Three test tubes
- 5) stopclock
- 6) A razor blade

Access to

- 7) Microscopes, slides and coverslips
- 8) Access to reagents of food test
- 9) Access to mortar and pestle
- 10) Heating source