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THE UNITED REPUBLIC OF TANZANIA NATIONAL EXAMINATIONS COUNCIL OF TANZANIA ADVANCED CERTIFICATE OF SECONDARY EDUCATION EXAMINATION 2024

133/3A

BIOLOGY 3A (ACTUAL PRACTICAL 3A)

03 HOURS ADVANCE INSTRUCTIONS

1.0 IMPORTANT

- 1.1 GREAT CARE MUST BE TAKEN **NOT** TO DIVULGE THESE INSTRUCTIONS TO BOTH CANDIDATES AND UNAUTHORIZED PERSONS EITHER DIRECTLY OR INDIRECTLY.
- 1.2 MAKE SURE THAT THE CANDIDATES ARE PROVIDED WITH SPECIMENS, CHEMICALS AND APPARATI AS INDICATED IN THESE 3 HOURS PRACTICAL ADVANCE INSTRUCTIONS ONLY AND **NOT** OTHERWISE.

2.0 PREPARATION OF THE SPECIMENS AND SOLUTIONS

Use chloroform to anaesthetize the fresh cockroaches about 10 minutes before the commencement of the examination. Provide 1 specimen to each candidate.

3.0 LABELLING OF THE SPECIMENS

- | | | | |
|-----|------------------------------------|-------|----------------|
| (a) | Fresh Cockroach (1 per candidate) | ----- | C ₁ |
| (b) | Hibiscus flower (1 per candidate) | ----- | N |
| (c) | Crab (1 for 4 candidates) | ----- | R |
| (d) | Grasshopper (1 per candidate) | ----- | S |
| (e) | Preserved rat (1 for 4 candidates) | ----- | T |

4.0 APPARATI

Provide each candidate with the following apparati:

- (a) 1 dissecting kit/instruments
- (b) 1 dissecting board/tray
- (c) 1 scalpel/knife
- (d) 4 watch glasses.

5.0 OTHER REQUIREMENT PER CANDIDATE (5 Marks)

- (a) 1 pair of gloves
- (b) 1 piece of cotton wool

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- (c) 30 cm cotton thread
- (d) 10 office pins.

6.0 ASSESSMENT OF THE DISSECTION AND DRAWING (05 Marks)

A Biology teacher appointed will be required to make an on-the spot assessment of each candidate's dissection and drawing at least 45 minutes after the beginning of the Biology Practical examination. The candidates' scores of the assessment should be recorded on a separate form provided. The form **must be attached to each candidate's script** and sent to NECTA.

7.0 NOTE TO EXAMINATIONS SUPERVISORS AND LABORATORY TECHNICIAN/ BIOLOGY TEACHER APPOINTED

After the arrangement of the laboratory for examination, the Laboratory Technician/ Biology teacher assigned the responsibility to arrange the laboratory must fill in the attached declaration form in page 3. The form indicates the quantity provided and the labels used for the specimens, chemicals and apparatus as indicated in the **03 Hours Advance Instructions**. The form must be filled at the beginning of each session of the examination and submitted to the Council enclosed together with the candidates' scripts in the last envelope of the final session.