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# THE UNITED REPUBLIC OF TANZANIA NATIONAL EXAMINATIONS COUNCIL OF TANZANIA CERTIFICATE OF SECONDARY EDUCATION EXAMINATION NOVEMBER 2019

033/2A

### BIOLOGY 2A (ACTUAL PRACTICAL A)

# 24 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 THE SPECIMENS, CHEMICALS AND APPARATI INDICATED IN THESE ADVANCE INSTRUCTIONS ONLY AND NOT OTHERWISE.

#### 2.0 PREPARATION OF APPARATUSES

Prepare a set of four test tubes for each candidate and use stickers to label them as 1, 2, 3 and 4 respectively. Provide a set of 4 test tube to each candidate.

#### 3.0 LABELLING OF SPECIMENS

# 4.0 LABELLING OF CHEMICALS

Prepare fresh solutions, label them as shown below and provide in such a way that can be shared by 2 - 4 candidates.

- (a) Benedict's solution
- (b) Sodium hydroxide solution
- (c) Iodine solution
- (d) Sudan III solution
- (e) Tape/rain/distilled water
- (f) Copper Sulphate solution

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# 5.0 APPARATUSES

	Provi	de candidates with	
	(a) (b) (c) (d) (e) (f) (g) (h)	Watch glasses. Sieve Scalpel/knife. Mortar and pestle. Test tubes. Beakers. Pipette/dropper with measurement. Test tube rack.	4 per candidate 1 per candidate 1 per candidate 1 per candidate 4 per candidate 1 per candidate
6.0	(a) (b)	HER REQUIREMENTS Stickers	4 per candidate

# 7.0 NOTE TO EXAMINATIONS SUPERVISOR AND HEAD OF BIOLOGY DEPARTMENT

The Head of Biology Department/ Biology Teacher must fill in the attached declaration form in page 3 to indicate the quantity provided, and the labels used for specimens, chemicals and apparatuses as indicated in the 24 Hours 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

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