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

NOVEMBER 2017

033/2A

2.0

BIOLOGY 2A (ACTUAL PRACTICAL A)

24 HOURS ADVANCE INSTRUCTIONS

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1.00	IMPO 1.1	RTANT GREAT CARE MUST BE TAKEN NOT TO DIVULGE THESE INSTRUCTIONS TO BOTH CANDIDATES AND UNAUTHORIZED PERSONS EITHER DIRECT OR IDIRECTLY.
	1,2	MAKE SURE THAT THE CANDIDATES ARE PROVIDED WITH THE SPECIMENS, CHEMICALS AND APPARATI INDICATED IN THESE ADVANCE INSTRUCTIONS ONLY AND NOT OTHERWISE.
	1.3	PLEASE DO NOT OPEN THE ENVELOPE CONTAINING THE QUESTION PAPERS 24 HOURS BEFORE THE TIME OF COMMENCEMENT OF THE EXAMINATION.
Pl	REPAR	ATION OF SOLUTION AND LABELLING
2.	1 Pr	eparation of solution and specimens
	(a)	Dissolve 20g of sucrose in 1 litre of water.
	(b)	Mix the sucrose solution with 500 cm ³ of cooking oil and stir the mixture well. Provide each candidate with 30 cm ³ .
	(c)	For fresh chicken or small bird, use chloroform to anaesthetize the animal 40 minutes before the examination start.
2.:	2 La	belling of the specimens and solutions
	(a)	A mixture of sucrose and cooking oil solution X
	(b)	Grasshopper K.
	(0)	Willad/prospryed chicken or small hird

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(b) Pine leaf----

(c) Maize seedling-----

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