

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

033/2C

BIOLOGY 2C
(ACTUAL PRACTICAL C)
(For Both School and Private candidates)

Time: 2:30 Hours

Year: 2020

Instructions

1. This paper consists of **two (2)** questions.
2. Answer **all** questions.
3. Each question carries twenty **five (25)** marks.
4. All writing must be in **blue** or **black** ink **except** drawing which must be in pencil.
5. Cellular phones, and any unauthorized materials are **not** allowed in the examination room.
6. Write your **Examination Number** on every page of your answer booklet (s)



1. You are provided with a mirror and you are required to hold it up until the image of the face is reflected on the surface of the mirror. Observe all sense organs on the mirror by touching them and then answer the questions that follow:
 - (a) What were the sense organs observed on the surface of the mirror?
 - (b) (i) Identify the sense organ responsible for hearing.
(ii) What nervous mechanism enables your hearing sense organs to recognize the sound?
 - (c) (i) Identify the sense organ responsible for vision.
(ii) What type of stimuli was perceived by the organ mentioned in (c)(i)?
 - (d) Draw a well-labelled diagram of the sense organ for vision to show the front view as you can see it on the surface of the mirror.
 - (e) Using any three labelled parts in (d) as a reference; explain what will happen in your daily life if the parts are seriously damaged.
2. You are provided with specimens **T**, **U** and **V**, study them carefully and answer the questions that follow:
 - (a) (i) Classify the specimens **T** and **V** to Class level.
(ii) Give two observable distinctive structures of each of the specimens **T** and **V** used to place them in their respective Classes.
 - (b) (i) Give the habitat for each of the specimens **U** and **V**.
(ii) How do the specimens **U** and **V** adapt to their habitats? Give three points for each.
 - (c) Why does the specimen **V** die when taken out of its habitat?
 - (d) (i) Why was specimen **U** formally placed in the Kingdom Plantae? Give two reasons.
(ii) State three economic importance of the specimen **U** in our daily lives.