

KWIMBA DISTRICT COUNCIL
FORM FOUR EXAMINATION 2023
BIOLOGY 2A & 2B (ACTUAL PRACTICAL)

033/2

A CHECKLIST OF SPECIMENS, CHEMICALS AND APPARATUS SPECIMENS

a) Maize seedling of two weeks' germination period	1 per candidate
b) Bean seedling of two weeks' germination period	1 per candidate
c) Grasshopper	1 per candidate
d) Spider	1 per candidate
e) Earth worm	1 per candidate
f) Lizard	1 for 3 candidates
g) Tilapia fish	1 per candidate
h) Bread mould	1 per candidate
i) Centipede	1 per candidate
j) Millipede	1 per candidate
k) Moss plant	1 for 3 candidates
l) Fern plant	1 for 3 candidates
m) Housefly	1 for 3 candidates
n) Bee	1 for 3 candidates
o) Irish potato	1 per candidate
p) Hibiscus flower	1 per candidate
q) Beetle	1 for 3 candidates
r) Scorpion	1 per 3 candidates
s) Mushroom	1 per 3 candidates
t) Groundnuts	2 per candidate
u) Butterfly	1 per candidate
v) Carrots	1 per candidate
w) Neem leaves	1 per candidate
x) Sugar	5g per candidate
y) Wheatflower	5g per candidate
z) Two pieces of iron metal	2 per 4 candidates

CHEMICALS

Each student will require the following

a) Iodine solutions	10ml per candidate
b) Benedicts solution	10ml per candidate
c) Dilute hydrochloric acid	10ml per candidate
d) Sodium hydroxide solution	10ml per candidate
e) Sudan III solution	10ml per candidate

f) Copper sulphate solution	5ml per candidate
g) Egg albumen powder	2g per candidate
h) Glucose powder	2g per candidate
i) Sucrose powder	2g per candidate
j) Tape/distilled water	1000ml per candidate
k) cooking oil	2lt
l) Fresh milk	4lt
m) Table sugar	2g per candidate

APPARATUSES

- a) Test tubes
- b) Test tube rack
- c) Test tube holder
- d) Test tube brush
- e) Source of heat (Bunsen burner)
- f) Pipette/dropper with measurement
- g) Beakers
- h) Watch glasses
- i) Mortar and pestle
- j) Hand lens
- k) Filter paper
- l) Sieves
- m) Plain mirror
- n) Sticker