

553/2
BIOLOGY
Paper 2
20242 ½
HOURS

YAAKA EXAMINATIONS

BIOLOGY

Paper 2

INSTRUCTIONS TO CANDIDATES

*This paper consists of **two** examination items. Answer **all** the items in the spaces provided.*

*Drawings should be made in the spaces provided. Use **sharp pencils** for your drawings. Coloured pencils or crayons should **not** be used.*

*No additional sheets of writing paper are to be inserted in the booklet. Work on additional sheets will **not** be scored.*

ITEM	SCORE(S)	EXAMINER'S SIGNATURE
Item 1		
Item 2		
Total		

INSTRUCTIONS FOR PREPARING SPECIMENS AND APPARATUS

The teacher responsible for preparing specimens must ensure that candidates are provided with correct specimens and other materials as specified in these instructions. Specimens and solutions which have been assigned codes should be presented to candidates using those **codes only** and not any other identity. The head teacher **must** ensure that the teacher responsible for preparing the specimens hands in his/her trial results for the physiology/biochemistry question, properly sealed in a separate envelope and **firmly** fastened (attached) to the candidates' script envelope(s).

In addition to the apparatus ordinarily contained in a Biology Laboratory, each candidate will require;

- **Specimen A:** Mixture of sand and clay soil in a ratio of 1:1.
- **Specimen B:** Mixture of sandy soil and loam soil in a ratio of 2:1.
- **Specimen C:** Freshly killed housefly.
- **Specimen D:** Freshly killed grasshopper.
- **Specimen E:** Freshly killed honeybee.

Materials Needed:

- 50 cm³ measuring cylinders.
- pH indicator strips.
- Distilled water for testing.
- Hand lens.

Special Notes:

- Specimens should be labeled only with their assigned codes.
- Ensure proper disposal of the killed specimens after the exam.

Item 1

A farmer is considering planting maize and requires suitable soil. You are provided with soil samples A and B. Design and conduct an investigation to determine which soil is most suitable for maize planting, focusing on texture, water retention, and pH.

Task:

(a). Describe the methods used for testing the soil samples.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(b). Record observations and draw conclusions about the suitability of each soil sample.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....



.....
.....
.....
.....
.....
.....
.....

Item 2

Insects play different roles in the garden ecosystem. You are provided with specimens C, D, and E. Use the provided materials to study and identify each insect's role.

Task:

(a). Construct a dichotomous key to identify specimens C, D, and E.

(b). Explain the ecological role of the beneficial insect identified.

.....
.....





GET ICT SKILLS TO EARN YOU

OVER \$2,000 A MONTH

Study a one month course (2hours, 3days a week) that will equip you with the practical skills and knowledge you need to start a profitable hustle even as you study, using your phone



CHOOSE FROM A VARIETY:

Digital Graphics & Imaging \$250

Digital Video Production \$250

AI Prompt Engineering \$250

Digital Content Creation 250

Social Media Essentials \$250

Website and apps design \$490

Creative Writing & Book Publishing \$390

MORE INFORMATION

+256770730170
info@yaaka.cc



www.yaaka.cc/makerere-djc
<https://jocom.mak.ac.ug/programs/short-courses>

Join an exclusive 5-day coaching program, empowering you to earn up to \$100,000 a month with a strategic \$5,000 investment

Scan QR code



BECOME

THE YOU WHO EARN \$100,000

A Month

Unlock the power to manifest your highest potential and transform your mindset with our exclusive 5-day coaching program, designed to elevate your frequency and tap into your God-given abilities, empowering you to earn up to \$100,000 a month with a strategic \$5,000 investment.

1

CHANGING YOUR THINKING

2

CHANGING YOUR FREQUENCY

3

MANAGING CAUSE NOT EFFECT

BECOMING

Ultimate Masters

THE MANIFESTATION MINDSET

How to Transform Your Life and Achieve Your Desires

Signup for next month

Winner's Cohort



PRIYA ROBI, INDIA

"The five-day coaching was incredibly powerful. The coach's teachings on frequency and manifestation opened my eyes to what's possible when you truly believe in yourself. I've since started my own online coaching program and have already hit \$50,000 in sales. The confidence and clarity I gained from this training are priceless!"



AISHA KENO, KENYA

"This program is a game-changer! The coach's unique approach to combining mindset, energy work, and practical business strategies resonated deeply with me. I've already launched my viral product line, and the sales are pouring in. The results I've seen in such a short time are beyond anything I could have imagined."



LIAM TARA, AUSTRALIA

"I was skeptical at first, but this training blew me away. The coach's ability to help us align with our highest potential is nothing short of amazing. I've gone from struggling with my consulting business to signing multiple \$20,000 contracts in just weeks. This course has set me on a path to consistent six-figure months!"



+256771324119



<https://www.ultimatemasters.org>



info@ultimatemasters.org

Join an exclusive 5-day coaching program, empowering you to earn up to \$100,000 a month with a strategic \$5,000 investment



Pay only **\$5,000** <https://www.paypal.com/ncp/payment/366EYG5CCUSZW>

On Paypal so you can claim back your money if you are not satisfied

GAIN THE ADVANTAGE IN SPIRITUALITY

The world is changing. Oh yes. As a religious or spiritual leader, you need an edge in the knowledge and insights to continue to be of relevance to the people who seek your services. We give you a new superior understanding of The Creator



SCAN QR CODE TO SUBSCRIBE

Our one-week online training gives you insights & knowledge of the Divine, so you can serve with relevance, wisdom, & love.



<https://www.paypal.com/ncp/payment/UNPT5WD8NFWAN>

JOIN OUR MONTHLY WEBINARS



THE LIGHT
Learn to illuminate your path with the Divine Light, guiding every step with clarity and love.



META PHYSICS
Unlock the mysteries of existence through metaphysical insights, deepening your understanding of the spiritual laws that govern our reality.



I AM POWER
Awaken your true potential by harnessing the infinite power of your divine essence, and communicate the same





CHRIST CONSCIOUSNESS
Embrace the unconditional love and wisdom of Christ Consciousness to elevate your spiritual leadership.



MASTER GERALD BUSINGE

- Gain insights from hundreds of books read and spiritual sessions with different faiths
- Multi-Award winning journalist and trainer with key insights to make you a better communicator
- Master the God frequency and tuning consistently to that which is within you to affect the outer
- Expert on Laws of the universe and laws of life

X@Masterseekers
+256771324119

 @ultimatemasters
 www.ultimatemasters.org/coaching



Get the best digital learning
ANNY TIME, ANYWHERE

PRIME NOTES, ASK & GET ANSWERED

BY SUPER AI TEACHERS
FOR ALL YOUR SUBJECTS



SUBSCRIBE & GET



PERSONALISED LEARNING

OUR AI CHAT TEACHERS ACT AS YOUR 24/7 PERSONALIZED GUIDES.



PRIME CONTENT, DOWNLOADS

GET CONTENT FOCUSES ON PRACTICAL APPLICATION, HELPING YOU TRANSLATE THEORY INTO ACTIONABLE SKILLS FOR YOUR CAREER OR PERSONAL GOALS.



STAY AHEAD

WITH CONSTANTLY UPDATED PREMIUM CONTENT, YOU'LL GAIN ACCESS TO THE LATEST TRENDS AND KNOWLEDGE IN YOUR SUBJECTS, DOWNLOAD THEM

GET UNEB OR MOCK EXAMS & TESTS, ASK THE AI TO SPOT FOR YOU EXAMS

www.yaaka.cc/subscribe-to-learn

Staffed to best support you

“
YAAKA.CC IS MORE THAN JUST A LEARNING PLATFORM - IT'S AN EMPOWERING COMMUNITY WHERE YOU'LL HAVE THE TOOLS AND SUPPORT TO ACHIEVE YOUR FULL POTENTIAL.
”



Agnes tumuheire
Digital Specialist



Philimon Badagawa
Learning Facilitator



Enid Nabumati
Multimedia Specialist



Gerald Businge
Technical Lead

10,000UGX A MONTH



+256770730170



info@yaaka.cc



OR 50,000UGX A YEAR

GET EXPERT SUMMARIES

SAVE TIME ON READING:

- GET KEY TAKE-AWAYS FROM 100S OF GREAT BOOKS
- ASK AI OF GREAT AUTHORS WHAT YOU WANT
- ANSWERS FOR YOU
- ANYTIME, ANYWHERE

GAIN ADANTAGE:

Attain the advantage in having this business, spiritual and esoteric knowledge, and wisdom by sages who implemented it. Get insights of a book in less than 10mins.

**\$50 MONTHLY FOR
UNLIMITED ACCESS**



+256771324119

INFO@ULTIMATEMASTERS.ORG

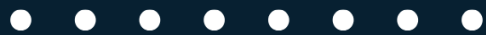
WWW.ULTIMATEMASTERS.ORG/COACHING

Century
th of top
nowledge



TAKEAWAYS FROM 100 TOP
SELF-HELP, WISDOM AND
MOTIVATIONAL BOOKS

MASTER GERALD BUSINGE



LEARN HOW TO CREATE MUSIC WITH AI AND EARN MONEY

\$250 OR UGX: 400,000

YOU'LL LEARN :

- THE POWER OF MUSIC
- TOOLS FOR COMPOSERS
- USING AI TO GENERATE MUSIC
- GROWING YOUR INFLUENCE
- EXPLORING GENRES AND MORE

CONTACT US :

 **+256770730170**

<https://www.yaaka.cc/makerere-djc>

