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Paper 3

BIOLOGY – (Practical)

Dec. 2022 – 1½ hours



Name Index Number

Candidate's Signature Date

Instructions to Candidates

- Write your name and index number in the spaces provided above.
- Sign and write the date of examination in the spaces provided above.
- Answer **all** the questions in the spaces provided.
- You are required to spend the first 15 minutes of the 1½ hours allowed for this paper reading the whole paper carefully before commencing your work.
- Additional pages must **not** be inserted.
- This paper consists of 7 printed pages.**
- Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.**
- Candidates should answer the questions in English.**

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Question	Maximum Score	Candidate's Score
1	13	
2	14	
3	13	
Total Score	40	



Kcse Biology Paper

G Psacharopoulos



Kcse Biology Paper :

Peak Revision K.C.S.E. Biology , **KCSE Revision History and Government Paper 2, Second Edition** A. Omato Maranga,2001 **Certificate Biology 3** , **Kenya National Bibliography** Kenya National Library Service. National Reference & Bibliographic Department,2011 **Peak Encyclopaedia K.C.S.E. Compulsory Subjects** , *Catalogue* ,1992 *School Science Practical Work in Africa* Umesh Ramnarain,2020-06-01 *School Science Practical Work in Africa* presents the scope of research and practice of science practical work in African schools It brings together prominent science educators and researchers from Africa to share their experience and findings on pedagogical innovations and research informed practices on school science practical work The book highlights trends and patterns in the enactment and role of practical work across African countries Practical work is regarded as intrinsic to science teaching and learning and the form of practical work that is strongly advocated is inquiry based learning which signals a definite paradigm shift from the traditional teacher dominated to a learner centered approach The book provides empirical research on approaches to practical work contextual factors in the enactment of practical work and professional development in teaching practical work This book will be of great interest to academics researchers and post graduate students in the fields of science education and educational policy **African Books in Print** ,1993 **The Kenya Education Directory** ,2005 *Teachers and Teaching Strategies* Gerald F. Ollington,2008 If the future of any society can be pinpointed it is with the teachers who help form the citizens of tomorrow Sometimes their impact is equal to the parents and sometimes surpasses it by not a small measure This book tackles teaching Strategies Innovations and Problem Solving as the focal points in teaching

Challenges of Quality Education in Sub-Saharan African Countries D. N. Sifuna,Nobuhide Sawamura,2010 Quality is at the heart of all education systems as good quality teaching and learning environments ensure effective learning outcomes Quality influences what students learn how well they learn and what benefits they draw from their education The quest to ensure that students achieve decent learning outcomes and acquire values and skills that help them play a positive role in their societies is an issue on the policy agenda of nearly every country As many world governments struggle to expand particularly basic education they also face the challenge of ensuring that students stay in school long enough to acquire the knowledge they need to cope in a rapidly changing world The purpose of this book is therefore to profile some aspects of education quality in the African education systems and highlight key policies for improving the teaching and learning outcomes The book is also intended to provide basic information to scholars who are interested in studying education in the Sub Saharan African region To enable users understand and appreciate developments trends and changes that have taken place in the education systems for most chapters the book deliberately adopts a historical approach which leads to some focus on developments which date back to the colonial period in Africa *Kenya National Assembly Official Record (Hansard)* ,2005-04-12 The official records of the proceedings of the Legislative Council of the Colony and Protectorate of

Kenya the House of Representatives of the Government of Kenya and the National Assembly of the Republic of Kenya

Kenya National Assembly Official Record (Hansard) ,2005-04-12 The official records of the proceedings of the Legislative Council of the Colony and Protectorate of Kenya the House of Representatives of the Government of Kenya and the National Assembly of the Republic of Kenya The Higher Education Institutions Handbook ,2012 **Agush Nyang** Isaac

Agumba,2025-10-06 My name is Isaac Agumba Ogutu I was born on 7th January 1996 But that is not my real date of birth I don t really know my actual date of birth since my father died just a few months before I was born and my mother also died a few months after she gave birth to me But its around 1997 98 It must be else how can I be older than my older brother I lived with some distant non relatives really all my life in Suna West Migori Western Kenya My father was born and lived in Tanzania where his mother my grandma was married He believe it or not was so badly mistreated at home and ran away never to be seen again That was around the 1980s My dad then sought asylum in Kenya around 1982 where he had ran to in search for a better life He met my mother who is from Kano in Kisumu West Western Kenya I am the last of 3 my brother is the middle and sister the eldest Growing up life was most horrible The horror stories we heard of orphaned children being mistreated by foster parents or guardians we lived right through that and much worse We were constantly mistreated beaten and went days without food sometimes I constantly ran away from home and would live in the bushes and survive on wild fruits for 2 or 3 days or at a neighbour s for 4 or 5 before coming back or being brought back to more beatings Our sister was so badly mistreated at home that she also like her late dad ran away from home and disappeared forever never to be seen or heard from again until 20 years later when she rose from the dead and reappeared So we lived with just my older brother He was slower at school and repeated 2 classes and so I was finished with school way before he did and it was awkward all our lives I we had the most horrible childhood We as I said were constantly mistreated and faced child labor and worse hardships daily for years We often lacked food shelter and clothing and more often other basics We were often woken up at 3am to go to the shamba and constantly pulled away from school to go to the shamba and look after cattle I hated every minute no every second of it But I shocked everyone when I got 303 500 marks which was an impossible fete considering everything and I was the first one ever in that whole extended family who had gotten that high marks I was to go to a good boarding school but there wasn t any money for school fees I was sent to go to a day school far from home and would trek over 40kms daily sometimes barefoot and in tatters and hungry I was later arranged to go live with a distant yet another non relative who lived nearer but his wife was hell to me more than I had ever seen I had been being beaten all the time all my life and that was the least of my worries it s the going without food In form 2 they sold our late father s last parcel of land They had long ago years before been selling our late parents wealth cows land car etc In school I constantly came last especially in forms 1 and 2 and endured the hardships until form 3 when the school was changed to a full boarding school and I had to board or drop out I chose to live like a rat in school constantly hiding living like I was a boarder but wasn t I used to sleep with a

friend today and another tomorrow I used to beg for food from the cooks at the school dining hall and friends gave me food but I sometimes went hungry But I always made sure to put in the work in class I was lucky to get a 4cm thick mattress weeks later and bunked at the screeching bed of a student who had been sent home for fees this week and another the next I had also been sent but had snuck back in I went to school my whole life on bursaries and help here and there Madam Beatrice our teacher of English who would have been very disappointed if I wrote English teacher instead constantly encouraged me and told me I had the potential to perform better academically I gradually improved and was once or twice spared from being sent home for fees for I was a good performer in class and was to represent the school in a Geography inter schools exam contest at Sironga Girls High School in Kisii where I met the first girl I ever loved but who didn't ever even once let me hit it and broke my heart In form 3 the grandpa we had lived with all our lives passed on and 2 years later his first of 6 wives who we had lived with all our lives also passed and it was the saddest day I shocked everyone when I became 2nd overall in the whole school with A minus in KCSE 2014 I went back home The hard life hard labour continued I ran away from home never to be seen again I went to Kuria near Kenya Tanzania border to teach at a shanty school for Ksh 3500 a month It was better than home I was selected to join The Technical University Of Kenya formerly called Kenya Polytechnic to do B com but I didn't have any money I had to pull a the prodigal son I went back home and begged But I am the first ever in the whole extended family to get an A But there was no money they couldn't pay if they wanted I even couldn't get my High School Certificate until years later when I barely managed to clear the huge fee arrears they held my certificate in ransom for I begged and groveled at another distant non relative who agreed to lend to me Ksh 23 000 US 150 which was barely enough for university registration and paid my bus fare Ksh 700 7 to Nairobi and took me to the big city for I had never before so much as gone past 20km away from Ushago my rural home in Migori He also offered to talk to her brother to live with me in his Nairobi Huruma slums 60km from TUK Technical University of Kenya located right in front of the Central Bank of Kenya from where I trekked to and fro everyday for a year on empty stomach before I said I'd rather drop out than live another year there He then left and left me at the hands and mercy of God never to see him again and with nowhere to get the rest of the fees The uncle I lived with in Huruma slums had a wife who was very horrible and hell to me just because her own daughter who had also done KCSE Kenya's High School Exams the same year as me but had gotten a D and couldn't get into a village cattle dip polytechnic if she wanted was also living right there But I now kind of understand I mean here I was a stranger barely related to your husband eating your free food and crapping in your free toilet going to university and will be successful in life while your own daughter is also right there languishing at home for she couldn't get into any school and is destined to be a mama mboga a groceries hawker or worse One day I was mugged near Mlango Kubwa area along Juja Road at Chai Road and my neck twisted by the muggers it hurt for days They stole all my books I couldn't get new books I borrowed from a friend I prayed to God everyday to deliver me from the hands of this hell woman When first

year ended and we came back home I vowed to drop out if I had to go back to that woman I was arranged to go live instead with yet another distant non relative for 2nd year I schooled fast and joined university when I hadn't turned 18 and so didn't have an ID so I couldn't apply for the student loans The second year uncle's wife his youngest of I don't know how many was the nicest woman ever She lived with her younger niece who we hid around the house and had sex with when everyone was not around and was my first ever sex by the way I would later invite her to my mabati iron sheets hut in Landi mawe slums and we had the wildest sex The previous sexes had had to be quiet for we were hiding around I had now towards the end of 2nd year at TUK gotten HELB student loans of 60k roughly 600 a year for I was a total orphan Others who had parents got a mere 35k Poor them Who told them to not have dead parents like me I now afforded to move out But only to a shanty in a slum for I was also paying for my own school fees and rent and bills and occasionally spared some and invited my girlfriend at the time Teresia Wanjia to come and alleviate my then weeks if not months long sex dry spell I later couldn't afford rent for between fees rent and food 60k a year wasn't enough I was kicked out of the slum shanty I went and begged to live with a friend at the hostels as an unregistered immigrant and rat They were engaged in illegal scams and one day thought I'd stolen from him and beat me up They bought stolen sim cards in bulk and registered them using stolen Kenya Bureau of Statistics Census data That was way back when you still could register sim cards that easily Betting platforms had offers for any account registered with a new sim that they had stolen they give you a free Ksh 500 betting bonus They would place with one sim card and betting account a bet for say Man u to beat Arsenal On another for Arsenal to beat the Red Devils On another for it to be Draw Regardless of the outcome they still won for it was not their money to begin with They made like 400k daily And I sometimes lacked even 30 bob for ugali and soup at the hostel mess Life's unfair I once begged one of them and they agreed to let me work for them as mules the one who placed the bets and were sent to pick the stolen sim cards God finally answered my prayers and I got a job through yet another distant non uncle at Standard Newspapers a casual gig really loading newspapers onto vans for 500 a night We were later fired when we used to steal newspapers to go sell on the side But the 500 a night around 5k a month at most for it wasn't every night for as long as it did complemented my HELB for fees and food and when I spared some I would give to my girlfriend to use as fare to come and spend the weekend She couldn't really be expected to eat the horrible Ksh 30 ugali and badly cooked sukuma wiki or beans stew served at the hostel mess when she had just done the hard task of removing my months long sex dry spell can she I had met Teresia long before and we had had sex on the hostel table on the first day We then broke up but would later meet again for a wild sex session first at Landi mawe slums then mukuru kwa njenga slums When schools closed everyone was chased from the hostels and I had to retire to such slums and mabati shanties I did all kind of manual casual jobs I met Mr James of Urban Waters in 3rd year who told me to distribute flyers to market his drinking water refill company for 17k a month When the branch had picked up I was to be let go but he was kind enough to let me continue as a motorbike rider I used to crash like every month and sustain

weeks long injuries marks of which are still all over my body even right now When time for industrial attachment came I tricked him into inadvertently signing my industrial attachment forms to appear like I had done attachment at his firm He would later fire me for stealing and selling water bottles on the side He had a niece who was half white and had come to Kenya from Canada for holidays and we used to work together and she smoked a lot of bhang and drank a lot but couldn't do so at her uncles so she asked to come to my place I was hoping to strike off yet another personal sexual fantasy off my bucket list have sex with a white even a half white counts doesn't it but I froze when I wanted to ask I had failed to have sex with a lesbian friend roommate I had had years ago I wasn't gonna let this pass But I was scared She was a rich mzungu so she was intimidating and I thought she was way out my league But she was giving me the vibes When she had finished smoking and drinking I escorted her back to her uncles and all the neighbors thought I'd had some action and that was good enough We used to ride bikes around for fun She was fun She deejays in Canada now In 3rd year at campus 2019 the university decided to everyone who had even 50 bob fee arrears was to drop out effective immediately I had around several tens of thousands more than that base cut off and dropped out I worked all kinds of menial even construction jobs and was able to rejoin a year later my friends and colleagues from first year having long graduated I had to join those who had been behind me But graduation was postponed again because of corona virus and I graduated in 2021 June 2 years later than originally planned The bursaries scholarships manual jobs etc hadn't been enough to clear my university fees so they held my Degree Certificate in ransom I forged a fee statement showing they owed me 10k and presented it to collect my degree instead of the real one that showed I owed them thousands While dropped out looking for fees as I said I met a lesbian girl who I wanted to have sex with as a fantasy but didn't I met another girl a single mother and lived with her briefly as husband and wife When I was fired from urban waters we lacked rent food and could pay bills often but my old boss paid for me He was a nice guy he hadn't actually fired us me and the guys we sold the stolen bottles with I spent months stressed and disillusioned with a wife and kid in the house We would go hungry some days and fast on others I one day woke up got ready like I had work to go to and set out I started asking for anything any job randomly and got none I sat at the roadside on a busy highway and cried tearfully and contemplated a lot including throwing myself over onto speeding oncoming buses A guy met me and encouraged me I continued to ask around I met a conman who offered me work but knew to take advantage of my most desperate times to trick me and he conned me my only smart phone I first got a job as a airtime scratch cards hawker then worked with some company that conned helpless clueless job seekers promising them we could get them employment My old colleagues at Urban Waters then told me of a similar water refill company wanting a motorbike rider I worked there for 2 months owner refused to pay us saying he didn't have any money I stole his bottle sealing machine in revenge and ran away I got a job as sales rep at a vehicle rental company We broke up with the single mother We got back with old campus flame Teresia We had unprotected sex and got the best thing that ever happened to me a baby boy my son The company constantly

sent me to far away branches but I had no option and we constantly moved with Teresia They sent me to Mombasa I would sleep in the forests when one of the vehicles or equipment got stuck They were downsizing and planned to fire me and with a wife and a few days old baby I didn't know what to do By then I was on 20k a month The manager was tribalistic and sent over his tribemate and was planning to fire all Luos and retain his tribe mates and relatives I left but not before stealing their computers fans office cutlery dishes and cups etc He sent over his brother who could be offered less than the 20k I was on for me to train him for a week before I was let go I DID NOT DO SUCH THING I luckily got a job at KCB Bank as a Direct Sales Rep You get people who want bank loans and you are paid 1% of that or get them to deposit money in KCB instead of other banks and paid also 1% I once made half a million and started wearing glasses and bought a car I later had an accident with it and nearly died and it was written off but I survived No one else in the world knows I have ever since worn a rosary round my neck and goes to church every Sunday I am a staunch catholic A colleague once wanted me to have sex with her in my car and one day nearly did but didn't I was loyal to my wife Teresia and my baby I was fired from KCB bank 2 weeks before I was to be promoted when I forged a managers signature to create fictitious bank accounts which is how Equity bank recently lost 2bn when some employees created fictitious accounts and stole 2bn The mastermind was let go on 30m bond only 970M profit right there haha Teresia started being disrespectful because I had lost my job and broke and I remember when we would fight and she would curse me and tell me I would lose my bank job and she would get a bank job herself Which is exactly what happened and I now suspect she is a witch which is another reason I got to church every Sunday She cheated on me and I threw her out and she went with my son but I wanted him to remain with me but a child needs the mother more when young I did all kinds of menial and manual and casual jobs I did boda boda with my old rickety and raggedy second hand motorbike which I had bought when I once got a customer who deposited over 50m and was paid the half a million part of which I had used to buy the now written off car I had borrowed 200k to add to meet the car price which was second hand also a debt that still weighs on my neck and I have been blacklisted from ever being employed in any bank because of the debt Also because I was fired I couldn't get a job anywhere easily I got an accounting gig with a company as an auditor They paid my first ever flight from Mombasa to Nairobi for an external audit We all left after 30 days all 3 of us who had joined at the same time for we realized they delay in paying salaries but not before I made away with the company laptop I was issued in lieu of my final dues I got an offer to be a DSR in Sidian Bank which President Ruto bought and is using to launder public funds Trauma from being fired at KCB made me pass I visited the manager whose signature I had forged and demanded she pay me 10k or I scream right then and there in the bank how she had ruined my life and make her lose hers as well but forgave her I felt had she just shut the f up and not reported me that I had forged her signatures I would now have been promoted as a teller with a loving wife and son but I was a bodaboda now instead all because of her I had all along been applying random jobs but none came through One day I got a miraculous gig which I don't even know how I got I

was being paid 6k a day to teach Masters and PhD students on Banking Finance Risk Management Data Analysis etc I don't know any of that shit but I am that good I excelled But it was only a short term gig In December 2024 I went back home for the first time in 7 years and to my maternal grandpa since forever stole my son to go visit with me to see his dad's roots I had once gone to Tanzania to see my paternal grandma when I was 8 or 9 During the visit I had attempted to have sex with a distant cousin of mine but I couldn't get it up And I was embarrassed and ran She was too Teresia cheated in January towards the end 2025 and that's when we separated and she moved out for she had gotten a similar job at Coop bank and I still suspect she is the one who cursed me the b w itch I remained staying at the house we had stayed with Teresia for years I met a very beautiful Swahili girl I briefly stayed in Nairobi for the teaching gigs and one day I paid for her SGR train to come to Nairobi It was her first ever time coming to Nairobi or anywhere outside coast for that matter We had sex and she got pregnant but she removed it for she was still going to trade school She said her mother would kill her I wanted her to keep it She's 19 We broke up She'd later try to rekindle stuff but I had met another one who is now my wife I got a job at Coca Cola as sales rep again paid 35k and moved permanently from Mombasa back to Nairobi I threw everything I owned inside my car and left for Nairobi At Mtito Andei a 80T container trailer rammed into me writing off my car and I escaped unscathed except a small scratch from maybe a broken glass No one else in the world knows that except myself even my wife doesn't just like even when I went home 4 months after being fired from KCB everyone else still thought I was a rich banker I only told them the truth when I got another bank job later So I went to the Coke job I begun house hunting and met a beautiful girl who told me her distant aunt has some servant quarter room she is letting I loved the room and her An sq is a small room at an estate but I started shacking the landlady's younger sister niece and she threw us out and refused to pay me back my rent deposit and rent advances I took her to the chief sheriff and she was forced to give me back my 14k but the chief took a 2k bribe Still better than nothing But the Coke job was toxic and horrible and the boss was a horrible short Kisii mf and almost told him so 3 months into the job in the resignation WhatsApp message I drafted for I was bold enough because I had gotten a 43k job as Data Analyst at the makers of the Safisha brand of cleaning products such as toilet cleaners bleaches handwash etc But I didn't tell him so I'm not that kind of a jerk I even forgave the manager whose signature I forged for let's face it I was the one on the wrong I got a DSR job at I M Bank and wondered which is better the 43k net data analyst job at Safisha where I just looked at a computer all day or the DSR job which brought back KCB traumas where I looked for people who wanted to take a bank loan in the scorching sun all month But again I decided I M bank is the 5th largest bank in Kenya and 8th biggest company and chances of promotion especially with my banking experience is higher I after only 3 weeks resigned from Safisha claiming the 3 month contract they had given me was suddenly not good for me I went to bank job where they gave only a 6 months contract fully commission based but gave you a flat 25k for the first 3 months then the rest 3 months you are required to hit loans and accounts openings sales targets or they won't renew past the 6th month 1 month in not even a

single lead I ran away but didn't resign I forged a sick note claiming I had gotten a bike crash so that I get paid there and also at Safisha where I had come back to when they agreed to give me a 5 month contract instead of a 3 month one I type this on their work laptop that they gave me Its 4th October 2025 at 1602 when I decided to start typing these stories of my life My name Isaac Agumba and I am the unluckiest person ever born Am I not I have been fired from every job I ever held My ex wife cursed me I got an accident and nearly died Read on in this exact exact story of my life to find out how I am the unluckiest person ever Regards Isaac Agumba Most Cursed Human Ever presidentagumba at gmail com 254718386264

Handbook on Public Policy and Food Security Sheryl L. Hendriks, Suresh C. Babu, 2024-04-12 The Handbook on Public Policy and Food Security provides multi disciplinary insight into food security analysis across the seventeen Sustainable Development Goals SDGs As food security is an essential outcome and a part of sustainable and healthy food systems this Handbook addresses the urgent need to provide a comprehensive overview of the field's current developments

Education in Comparative Perspective Bradshaw, 2021-11-01 The 9 articles in this volume look at a variety of educational issues around the world and examine what they say about current theories Papers discuss critical substantive issues such as the role of the state in the educational process the importance of female education in the development process the influence of a distinctive Asian model of education on the Asian economic miracle and vocational training systems All papers relate substantive processes to theory in some way and are explicitly comparative either by relating at least two countries or by making broader points in the fields of education and sociology Together they cover topics and cases throughout different regions of the world including Africa Asia Latin America and Europe as well as the United States

International Guide to Qualifications in Education , 1996 A comprehensive survey of the education systems of 170 countries and an equivalence evaluation of the qualifications they offer This handbook is intended for admissions departments administrators and teaching staff in universities colleges and schools worldwide **The Weekly Review** , 1992

International Studies in Sociology and Social Anthropology , 1997

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