

Student's name.....Signature

Stream

553/1

BIOLOGY

(THEORY)

26th/march/2024

Paper 1

MAR/APRIL 2024

2 hours

UGANDA CERTIFICATE OF EDUCATION.

COMPETENCE BASED ASSESSMENT EXAMINATIONS

BIOLOGY

(Theory)

MID TERM

SENK

Paper 2

2Hours

INSTRUCTIONS:

- *This paper consists two sections.*
- *Section A has **three compulsory items**. Responses to these items must be written in the spaces provided **ONLY**.*
- *Section B has **four items**; in two subsections subsection 1 and subsection 2 and each consisting of two items. Attempt **ONE** item from each subsection.*

SECTION A (45 SCORES)

Attempt all questions.

ITEM 1

A farmer bought a piece of land in Nakasongola district where they have been grazing large numbers of animals for a long period of time. Towards the end of dry season, he cleared the land by bush burning since he had planned to plant maize crops. Due to lack of money, he did not till (plow) the land hence he just bought seeds, made holes and planted them. Many seeds did not germinate and the seeds that germinated developed yellow leaves and hard stunted growth and at the end of the season, he received low yields.

Task

(a) As a student of biology, explain how the history of the land and failure to plow could be responsible for stunted growth. **(05scores)**

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(b) Describe what could have caused failure of seeds to germinate and how his other practices could have resulted into yellowing of leaves of germinated plants and low yields.

(06 scores)

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(c) Advise the farmer on how to overcome the above challenges. **(04 scores)**

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ITEM 2

David de Gea was a Manchester united goal keeper up to 2023. When asked during an interview why he was scored many penalties, he replied “many times he could not see the near balls during penalty shooting”. In 2014 when he was the goal keeper of Spain, during the football, he jumped high to grab the ball in air but poorly landed down with arm first followed by the body. His arm could not stretch and he was experiencing a lot of pain in the upper arm. Paul Pogba was also recently accused of drug abuse and banned for 4years.

Task

- (a) Describe the challenges faced by David de gea during his carrier as a foot baller and suggest the possible recommendations to enable other footballers overcome the same challenges. **(08 scores)**

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(b) As a student of biology, explain why Paul Pogba was banned from football and suggest possible solutions on how he can overcome the related challenges (07 scores)

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3. A senior two girl aged 15 years of age ever since she joined secondary; she has been experiencing great changes in her body both physically and behaviorally. Last month, she was suspended from school for a week after being caught with a senior six boy in one dark room. For this month, she has missed her periods, experiences nausea and body fatigue though not sure of the cause. When taken to clinic, she was found pregnant but she denied that she is still young. The senior six boy also started experiencing painless sore on his genitals, skin rash and swollen lymph nodes.

Task

(a) Describe the physical and behavioral changes that occurred in the girl and how they could have led her into the challenges. **(05 scores)**

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(b) Describe the possibility of her being pregnant yet she claims to be young and stage the challenges that may be face by the senior six boy. **(05 scores)**

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(c) Describe the possible challenges that the two people are likely to face and suggest other youth can overcome the above challenges. **(05 scores)**

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SECTION B

*Attempt any **one item** (question) from each sub section.
Any additional number from the same subsection will not be marked.*

SUB-SECTION (I)

ITEM 4

John has been smoking cigarette, feeding on processed meat and many times, he has been drinking alcohol for many years. A few years back, he started experiencing shortness of breath, persistent cough, difficulty in breathing, high blood pressure, rapid breathing and has also been complaining of dental problems, stomach discomfort and has greatly lost weight. Every night and day, he frequently urinates and feels excessive thirsty.

Task

As a student of biology, describe the challenges faced by Mr. John and suggest possible solutions on how to overcome the problems. **(15 scores)**

ITEM 5.

After a period of three month when a man was experiencing swelling of the legs and fatigue, he went to the clinic for medical checkup. After urinalysis, it was found that the man much glucose and some proteins in urine. His 8 year old child has sunken eyes, weak muscles, stunted in growth and has bleeding gums.

Task

As a student of biology, write a report to the family of the man and suggest possible solutions and preventive measures to overcome the prevailing challenges in his family. **(15 scores)**

SUB-SECTION (II)

ITEM 6

In the report from ministry of disaster preparedness, it was stated that increased famine and prolonged dry season in some parts of the country is due to in harsh human activities; that have led into reduced crop yields and low honey production by farmers. The ministry is planning to organize a meeting to suggest possible remedies to the prevailing serious matter.

Task

As a biology student, write a speech you would deliver in case you are invited for the meeting. **(15 scores)**

ITEM 7

Kampala industrial center hosts several industries. They have several benefits though a report from ministry of health shows that the number of respiratory infections has increased. People staying near NAMANVE stream that links to lake victoria complain of increased cases of death due to malaria and chlorella. The water also over smells on hot days and many algae have grown on it. The people are concerned but not certain of what could be the source of the problems and how to overcome them. The chairman of namanve has planned to hold a meeting with people in the community.

Task.

As a student of biology, write a speech you would deliver in a meeting upon invitation by the chairman as a representative of your school. **(15 scores)**

END

WISH YOU SUCESS