

**PRINCE JOSEPH ACADEMY EXAMINATIONS**

**Uganda certificate of education**

**S.2 END OF TERM 1, 2022**

**BIOLOGY (THEORY)**

**1hours 30 minutes**

**INSTRUCTIONS:** Answer all the questions on the answer sheets provided.

1 (a) Okello lives in the suburbs of Kampala city near Wandegaya in Katanga village. His house is bordering a water drainage channel that floods with sewage especially during the rainy seasons. One day, he noticed that in the water channel there were many mosquitoes larvae and realised that is why he was suffering from malaria time and again. His neighbour, Mukasa, had also created a rubbish pit in front of his house besides the water channel where jack fruit and banana peels were dumped regularly. These attracted many houseflies that fed on rotting organic matter. These houseflies visited their houses and at times rested on their cold food that was left exposed which later would be eaten. During rainy seasons, his family members would experience diseases like malaria, dysentery and cholera occasionally. Besides the water channel opposite his house, Okello had a maize garden there. As he was weeding his maize plants, he noticed that army worms (caterpillars) were destroying the shoots of his maize. He as well found out that some maize plants were being destroyed by termites from the nearby anthill. He became so disappointed and didn't know what to do next.

**TASK:**

- (i) As a student who has studied about insects, what advice can you give to Okello who lives in Katanga village to overcome the challenges is facing. (10maks)
- (ii) Using observable features, construct a dichotomous key to identify the insects disturbing Okello of Katanga village. (10marks)

(b) Study the word puzzle below

T	B	R	E	P	R	O	D	U	C	T	I	O	N
P	A	E	G	O	I	T	O	N	A	R	S	N	C
E	C	N	S	O	R	R	B	O	H	O	I	U	A
N	T	C	E	V	E	E	A	I	H	O	S	T	I
D	E	M	C	A	A	E	C	T	R	S	O	I	L
O	R	S	S	C	H	T	T	A	F	R	I	G	I
S	I	I	E	C	P	I	E	G	C	I	B	Y	C
P	O	L	A	I	Y	S	R	U	O	G	M	N	N
O	P	A	G	N	H	A	I	J	O	N	Y	V	E
R	H	U	L	E	E	R	A	N	P	U	S	I	H
E	A	T	A	O	L	A	S	O	G	F	I	R	C
C	G	U	B	P	U	P	D	C	H	E	R	U	I
B	E	M	H	P	R	O	T	I	S	T	S	S	L
G	B	I	N	A	R	Y	F	I	S	S	I	O	N

Identify and list the words relating to viruses, bacteria, fungi and protoctists. (6 marks)

- (c) Community members of some village, have a misconception on the signs and symptoms of HIV and COVID- 19 and their control measures. As a student with knowledge on viruses, you are required to clear the above misconceptions
- (i) State the signs and symptoms of the viruses/ diseases in the above information that could be worrying the above community. (6marks)
- (iii) How can the community members control the spread of the viruses that are affecting them? (8marks)

END

BLOSSOM WHERE GOD PLANTS YOU