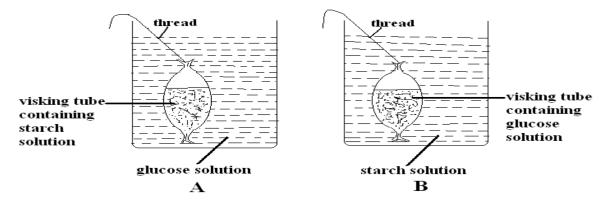
Name:	Adm no
Class	

231/2 BIOLOGY FORM THREE OCT/NOV 2019 – END TERM TIME: 2 HRS

INSTRUCTIONS TO CANDIDATES:

- Answer **ALL** the questions
- Answers should be written in the spaces provided
- 1. The following experiment was set up by a form one class. After an hour, the contents of the visking tubing and the beaker were tested using iodine solution and benedict's solution.



Record in the table below the expected observations after the contents in set up A and B were tested using iodine solution and benedict's solution.

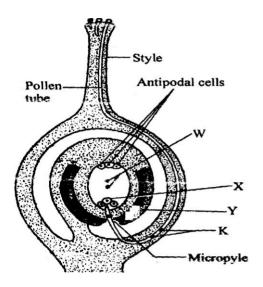
[8 marks]

	Visking tubing		Beaker		
Set up	Iodine solution	Benedicts solution	Iodine solution	Benedict's solution	
A					
В					

2.	The diagram below shows the association between the alveolus and a blood capillary. Study it and
	answer the questions that follow.
a)	State the physiological process by which the gas labeled X enters the cell labeled K. (1mk)
b)	Identify gases represented by letter X and Y
-,	X
	(1mk) Y
	1
c)	Give two adaptations of cell K to its functions.
	(2mks)
d)	State three characteristics of respiratory surfaces.
	(3mks)
•••	

a) Define the following terms as used in a	nimal nutrition	
i) Dentition		
(1mk)		
		• • • • • • • • • • • • • • • • • • • •
ii) Homodont and heterodont teeth		
(2mks)		
	••••••	
		•••••
b) State two functions of ileum		
(2mks)		
		•••••
(c) Explain the importance of the follo(2mks)(i) Chlorophyll	owing in the process of photosynthesis;	
(ii) Light		
(d) State one use of Potassium in (K ⁺)) ion the hody	(1mk)
(a) State one use of Foliassiani in (if		
••••		
The diagram below shows a cross section t	through the female part of a flower.	
a) N	Name the structures labelled W,X, and Y.	(3mks)
Compiled & distributed by Schools Net X E-mail: infosnkenya@gmail.com		
b)	ZState two functions of the pollen tube.	(2mks)

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	c)	What happens to antipodal cells after	fertilization.	(1mk)
	d)	Name the structure labelled K and sta		
,	The f	ee differences between the section show me plant.	a) Name the parts labelled A	A and B on the diagram. (2mks) the parts labelled C, D and E.(3mks)

Answer ques	SECTION B(40 Nations 6 (compulsory) and either questions	7 or 8 in the spaces provided questio
The glucose	level in mg per 100cm ³ of blood was dete	rmined in two person Y and Z. Bot
	hours without taking food. They were fed	
	nt .The amount of glucose in their blood w	as determined at intervals .The resul
shown in the		
Times in	Glucose level in blood in mg/100cm ³	Glucose level in blood in mg /100cm ³
ninutes	Y	Z
0	85	78
20	105	110
30	105	110
45	130	170
60	100	170
80	93	193
100	90	140
120	90	130
1/1(1)	1 88	1 / ()
s)	e grid provided, plot graphs of glucose leve	
a) On th		els in blood against time on the same
a) On th s) b) What	e grid provided, plot graphs of glucose leve	els in blood against time on the same
a) On the S) b) What (2mks)	e grid provided, plot graphs of glucose leve	els in blood against time on the same
a) On the s) b) What (2mks)	e grid provided, plot graphs of glucose leve	els in blood against time on the same
a) On the S) What (2mks) Y	was the concentration of glucose in the blo	els in blood against time on the same
a) On the S) b) What (2mks) Y Z c) According to the Accordi	e grid provided, plot graphs of glucose leve	els in blood against time on the same
a) On the (S) b) What (2mks) Y Z	was the concentration of glucose in the blo	els in blood against time on the same
a) On the S) b) What (2mks) Y Z c) According to the Accordi	was the concentration of glucose in the blo	els in blood against time on the same

(4mks)

	d) Account for the decrease in glucose level person Z after 60 minutes. (2mks)
	e) Low blood sugar level in harmful to the body .Explain. (3mks)
	State the various causes of seed dormancy . (8mks)
nl	Describe various factors that affect the process of seed germination. ks)
	Discuss the adaptations of the mammalian skin to its functions.
ml	ks)
	•