NAME: …… INDEX NO: ……

SCHOOL: …… DATE : ……

CANDIDATE'S SIGNATURE:……

231/2
BIOLOGY
PAPER 2
(THEORY)
JULY / AUGUST 2014
TIME: 2 HOURS

NANDI CENTRAL JOINT DISTRICT MOCK 2014

Kenya Certificate of Secondary Education (K.C.S.E.)
BIOLOGY
PAPER 2
TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES:

(a) *Write your **Name** and **Index Number** in the spaces provided.*

(b) ***Sign** and write the **Date** of examination in the spaces provided.*

(c) *This paper consists of TWO sections **A** and **B**.*

(d) *Answer all questions in section **A** in the spaces provided.*

(e) *In section B, answer question **6 (compulsory)** and either question **7** or **8** in the spaces provided.*

FOR EXAMINER'S USE ONLY

SECTION	QUESTION	MAX. SCORE	CANDIDATE SCORE
A	1	8	
	2	8	
	3	8	
	4	8	
	5	8	
B	6	20	
	7	20	
	8	20	
	TOTAL	**80**	

(ii) What are the importance of tissue fluid? (2mks)

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(d) Name the blood vessel with the highest concentration of: (2mks)

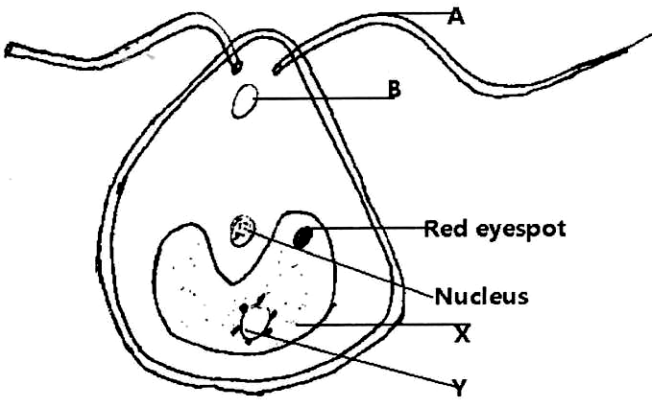
(i) Glucose

……

(ii) Carbon (iv) oxide

……..

3. Below is a diagram of an organism found in water. **Study** it and answer the following questions:



(a) **State** the kingdom in which the organism belongs. (1mk)

……

(b) **Name** the parts labeled:

B (1mk)

…….....

Y (1mk)

……

(c) State the functions of the following parts:

A (1mk)

……

……

X (1mk)

……

……

(d) Explain briefly why the organism is described as eukaryotic. (1mk)

……

……

(e) Give **two** other members that belong to the same kingdom with the above organism. (2mks)

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4. In an experiment, black mice were crossed and the offspring were black and brown. The gene for black colour is dominant over that of brown colour.

Using letter B to represent the gene for black colour and b to represent the gene brown colour.

(a) Work out the genotypes of the F1 generation. (4mks)

6. An experiment was carried out to investigate the effect of temperature on the rate of reaction catalyzed by an enzyme. The results are shown in the table below.

Temperature (^{0}C)	Rate of reaction in mg of products per unit time
5	0.2
10	0.5
15	0.8
20	1.1
25	1.5
30	2.1
35	3.0
40	3.7
45	3.4
50	2.8
55	2.1
60	1.1

(a) On the grid provided, draw a graph of rate of reaction against temperature. (6mks)

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ANSWERS:

Order a copy of answers from www.schoolsnetkenya.com/order-e-copy

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