NAME	CLS	C.NO	ADM
	TODO		ADM

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NYABUI NATIO		
OUR LAD	OY OF LO	DURDES

DATE DONE
INVIGILATOR
DATE RETURNED
DATE REVISED

BIOLOGY FORM TWO C.A.T. 2 PAPER 2 TERM TWO 2016 TIME: 2 HOURS

## **INSTRUCTIONS.**

- Write your name, class, class number and adm in the spaces provided above.
- > Answer all questions in the spaces provided.
- In section B, answer question 6 (compulsory) then either question 7 or 8 in the spaces provided.

## FOR EXAMINER'S USE ONLY

SECTION	QUESTION	MAXIMUM	CANDIDATE'S SCORE
		SCORE	
	1	8	
	2	8	
A	3	8	
	4	8	
	5	8	
	6	20	
В	7	20	
	8	20	
	TOTAL SCORE	80	

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<ul> <li>SECTION A</li> <li>1. An experiment was set up to investigate a certain physiological process. were set up and labeled A, B, C containing distilled water, 0.9% sodium c and 9% sodium chloride solution respectively. A drop of blood was added The experiment was then left for one hour after which the cell were observed incroscope.</li> </ul>	hloride solution
(i) State the physiological process that was being investigated.	(1 Mk)
<ul><li>(ii) State and explain the observation that were made in;</li><li>(a) Beaker (distilled water)</li></ul>	(2 Mks)
	,
	***************************************
	***************************************
(7)	
(b) Beaker B (0.9% Sodium Chloride solution.	(2 Mks)
	•••••
	•••••
Y	********
(ii) What other factors affect the physiological process stated above.	(3 Mks)
	(3 MKS)
	• • • • • • • • • • • • • • • • • • • •
	• • • • • • • • • • • • • • • • • • • •
2. The diagram below shows sections taken though the stem and root of a bean	1
and som and root of a bean	piant.
	- 3 - 4
	· 4

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(a) (i) From which part of the plant in section A taken? Give reason.	(2 Mks)
	•••••••••••••••••••••••••••••••••••••••
(ii) From which part of the plant is section B taken. Give reason.	(2 Mks)
<ul><li>(b) What is the name of the tissue which</li><li>(i) Carries water and dissolved mineral salts.</li></ul>	(1 Mk)
(ii) Translocate manufactured food through the plant.	(1 Mk)
(c) Name the parts labeled	(2 Mks)
2	•••••••
4	
3. Study the diagram below and answer the questions that follow.	
Broken platelets release	
Prothrombin	
C Fibrin	
(a) Name the substances;	
a) Praine the substances;	(3 Mks)
A	
3	
	••••••
S	

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(b) Name two enzymes required in the blood clotting process.	(2 Mks
	• • • • • • • • • • • • • • • • • • • •
(c) State the metallic ion that is also necessary for the conversion of prothrombin	(1 Mk)
(d) State two environmental factors that affect the rate of transpiration in plants.	
	•••••
4. The diagram below shows a section through the heart of a mammal.  B	
(a) Label the parts marked;	(4 Mks)
B	
(b) State two structural difference between blood vessels A and B.	(2 Mks)

(iv) Name the fluid found in part labeled B and state its function.

(2 Mks)