E2011 BIOLOGY 2 hours	I
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Candidate's Name:	
Registration Number:	••••
Serial Number:	****
Centre Name:	****
Centre Number	

NATIONAL EXAMINATIONS COUNCIL Senior School Certificate Examination

2 hours

BIOLOGY I ALTERNATIVE TO PRACTICAL

Do not open this question booklet until you are told to do so. While waiting, read the following carefully:

Write your Name, Registration Number, Serial Number, Centre Name and Centre Number in the spaces provided at the top right-hand corner of this question booklet.

Write your answer in blue or black ink inside this booklet.

Answer all questions.

Question 1 carries 30 marks while questions 2 and 3 carry 25 marks each.

FOR OFFICIAL USI	EONLY
QUESTION NUMBER	MARK
1	
2	
3	
TOTAL	

Classify H, I, J and K into their fruit types.	
н	
11	
J	
K	
	- (4 marks
State one characteristic each of H, I and K to justify y	our answers in 3a(ii).
Н	
1	
K	
Name the parts labelled I, II, III, IV and V.	(3 marks)
II	
Ш	
IV	
v	
	(5 marks)
Mention one agent of dispersal each for I and J.	
J	(2 marks)
State two reasons each for your answers in b(i).	
1	
2.	
	(2 marks)
1	
2	0-20
	(2 marks)

(ii)	State the classes to which A, B, C and D belong.	
	A	
75%	В	
	C	
	D	4 1
		(4 marks)
(iii)	Name the parts labelled I, II, III, IV, V, VI and VII. I	
	п	
	ш	
	IV	
	v	
	VI	
	VII	
		(7 marks)
b (i)	Mention one function each of the parts labelled I, II, III, IV and V.	
	1	-
	II	
	ш	
	IV	
	v	
(ii)	Give one economic importance each of A, B and E.	(5 marks)
	A	
	В	
	E	
		(3 marks)

Enumerate two importance of the process in Fig. 1.4 to plant life.	(1 mark)
1	
2	
	(2 marks
Study Fig. 1.5 and use it to answer questions 3(a to b).	
	-ш
II (III)	
H	
111111111111111111111111111111111111111	
	N V
Same	5
K	
W .	
Fig. 1.5	
Identify H, I, J and K.	
Н	
1	
J	

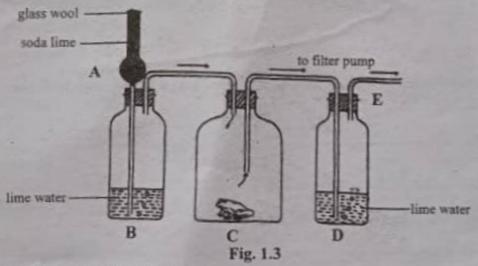
11		
		(2)
Give two functions of III.		
1	19	
2		
		(21
List two observable structural sim	nilarities between F and G.	
List two observable structural sin	nilarities between F and G.	
List two observable structural sin	nilarities between F and G.	

(v) Give two structural differences between F and G.

S/N	F	G
1		
2		

(4 marks)

Study Fig. 1.3 and use it to answer questions 2b(i - v).



b (i) State the function of soda lime in A.

(1 mark)

	(1 mark
Mention the experimental role of to	ad in C.
	(1 mark
If the experimental set-ups is allow observations of lime water in B and	ed to stand for 30 minutes, state your I D.
B	
	(1 mark)
Give a suitable title to the experime	ental set-ups in Fig. 1.3.
	(1 mark)
Study Fig. 1.4 and use it to answer	questions 2c (i - v).
E 551	
	yamyam
lin lot	— yam
3	2000000
salt	
ater 2	155
	The state of the s
X ₁	X ₂ (After 2 to 3 hours)
	Fig. 1.4
	wed to stand for 2 to 3 hours, state your observation
in X ₁ and X ₂ .	
X ₁	
^1	
	(1 mark)
	(1 mark)
X ₂	
	(1 mark)
	(1 mark)
X ₂ State the role of salt in the experime	ntal set-ups. (1 mark)
X ₂	
	(1 mark)
	ntal set-ups. (1 mark)

c (i) State two observable differences between D and E.

S/N	D	E
1.		
2.		

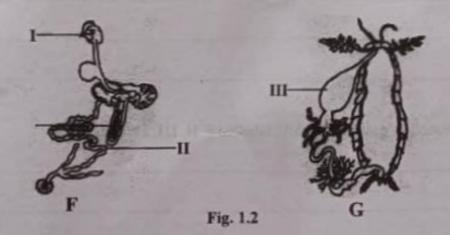
(4 marks)

2775	Mantion	tren	adaptive	features	of	E	lo.	its	habita	į
(ii)	Mention	LALO	adaptive	reatures	OI	103	w	112	naona	a

1______

(2 marks)

Study Fig. 1.2 and use it to answer questions 2a(i - v).



2a (i) Identify F and G.

F_

G

(2 marks)

PAPERT

Study Fig. 1.1 and use it to answer aff questions I(a to c).

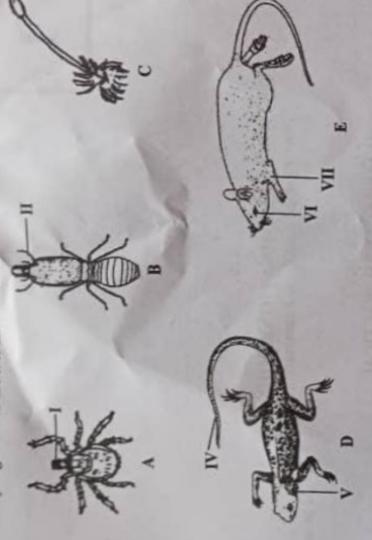
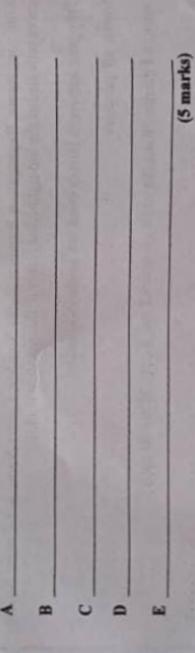


Fig. 1.1

1a (i) Identify A, B, C, D and E.



H				
I		-	-	
к	La	1		(3 marray
		*	*	