SC5043 WASSCE 2021 **BIOLOGY 3** Practical 2 hours

PAST QUESTIONS QUIZZES

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West African Senior School Certificate Examination for School Candidates

SC 2021

BIOLOGY 3 Practical. [30 marks]

2 hours

INSTRUCTIONS TO CANDIDATES

Write your name and index number in ink in the spaces provided above.

Answer all the questions in Section A and all the questions in the section peculiar to your country.

No marks will be awarded for answering questions not peculiar to your country.

Use 2B pencil to draw where necessary.

Write your answers in the spaces provided in the question paper.

Write in the space provided below, the QUESTION NUMBER OF THE OUESTIONS YOU HAVE ANSWERED in the order in which you have answered them.

Question Number	Mark	

SECTION A

[50 marks]

FOR ALL CANDIDATES

Answer all the questions in this section.

(a)	Name	e the class of specimen A.	
			[1 ma
(b)	State	four observable features of the Class named in 1(a).	
		i i	
			[4 mai
(c)	Nam	the two other members of the Class mentioned in $1(a)$.	ggghh
		1000	
		100	[2 ma
(d)		ribe briefly how the limbs of specimen A are adapted for movement: on land;	2
	(i)	on land,	
		× ×	 [4 mar
	(ii)	in water;	
	gggi		[4 mar

Candidate's Name: Do not (e) Make a drawing, 8 cm to 10 cm long, of the lateral view of specimen A and label fully. write in this margin. [10 marks] Beakers C, D, E and F contain seeds that have been sown for seven days. Carefully remove one seed/seedling from each of the beakers labelled C, D, E and F and place each on the corresponding white tile labelled C, D, E and F. Study them and answer questions 2(a) to 2(c). Observe the soils and seed/seedling then record the observation and result on the table below. Result Soil/seed/seedling Two observations in beaker C D \mathbf{E}

[12 marks]

F

ggghhh

Do not write in this margin.

<i>b)</i> (i)	Name one condition for germination that was likely	absent in the beakers labelled
	D, E and F.	
	D: -	
	E;	×
ggghhh	F:	[3 marks]
(ii)	Give two reasons for the result in beaker $C_{\rm s}$	
		[2 marks]

(c) Make a drawing, 8 cm to 10 cm long of one seed/seedling obtained from the beaker labelled C and label fully.

[8 marks]

ggghhh

Do not write in this margin.

		Section B	
		[30 marks]	
		FOR CANDIDATES IN GHANA ONLY	ggghhh
		Answer the questions in this section.	
Stud	dy spec	cimens G , H and J and answer questions $3(a)$ to $3(f)$.	
(a)	(i)	Describe the stem of specimen G .	
	(ii)	State two ways by which specimen G is of biological significance.	[4 marks
	ı	ggghhh	[2 marks
<i>(b)</i>		ain briefly how specimen H survives a fire outbreak.	
(c)	Expl	ain briefly how three features of specimen J enable it to survive drought.	[4 marks
		×	
(d)	(i)	Name one habitat of specimens G and J.	[6 marks

ggghhh

[1 mark]

ggghhh	(ii)	List three abiotic factors in the habitat	of specimen J		Do not write in this margin.
		8.1			
				[3 marks]	
(e)		e table below, state three observable di	fferences each between specimens:		
	(1)	H and J;	J		
		÷			
				[3 marks]	r l
	(ii)	J and K.	K		
	_				
				[3 marks]	
<i>(f)</i>	Sta (i)	te two observable similarities each betw H and J ;			
	440			[2 marks]	
	(11)	J and K.			
				[2 marks]	
		ggghhh		[2 Illains]	

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write in
his margin.

Candidate's Name:	
Section C	

SECTION C

		[30 marks]	
		For Candidates In Nigeria, Sierra Leone, The Gambia and Liberia Answer the questions in this section.	Λ
Stu	dy spe	ecimens K and L and answer questions 4 (a) to 4 (e).	ggghhh
(a)	Cla	ssify each of specimens K and L into its:	
	(i)	Phylum;	
		K:	
		L:	al .
			[2 marks
	(ii)	Class	
		K;	
		L:	
(b)	(i)	State three observable features of members of the Class of specimen K .	[2 marks
ggg	(ii) ghhh	Name three other Classes of the Phylum to which specimen K belongs.	[3 marks
c)	(i)	State two ways each by which specimens K and L are of economic impo K :	[3 marks] rtance.
		L:	
	(ii)	State five ways by which specimen K can be controlled.	[4 marks]
		<u>*</u>	
ggh	66		
00"			

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[5 marks]

(i)	State five observ	able differences betv	veen specimens K and L.	write this man
	K	2.0	L	
ghhh				
			1:	
				[5 marks]
(ii)			tween specimens K and L .	
				- A
ggghhh				[4 marks]
Nan	ne one habitat ea	ch of specimens K ar	nd L	
K:				
\mathbf{L} :				

[2 marks]

Do not write in

END OF PAPER