

Name	
Index Number	

THE WEST AFRICAN EXAMINATIONS COUNCIL

West African Senior School Certificate Examination for Private Candidates, 2024 - Second series

(PC2) 2024

BIOLOGY 3 ALTERNATIVE TO PRACTICAL WORK [80 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.

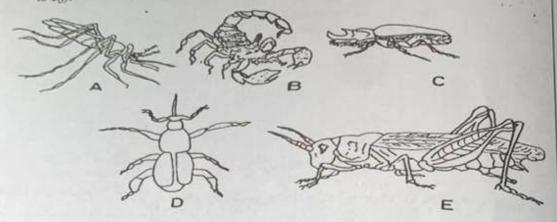
Write your answers in the spaces provided in the question paper.

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

Question Number	Mark
	٠.
8	Line.
	CITY
Total	

Section A [50 marks] Answer all the questions.

The diagrams below are illustrations of organisms. Use them to answer questions 1(a) to 1(0).



(a) Identify the organisms labelled A, B, C, D and E.

A:____

B:

C:____

D:

E:

[5 marks]

(b) Complete the table below by naming the Class to which each of organisms A, B, C, D and E belong.

Organism	Class
A	
В	
С	
D	
E	

[5 marks]

Do not write in

support their placement into the Classes named in 1(b).

[6 marks]

(d) State one way by which each of organisms A, D and E are of economic importance.

D;_____

[3 marks]

(e) Name the habitat of organism E.

[1 mark]

(f) State the:

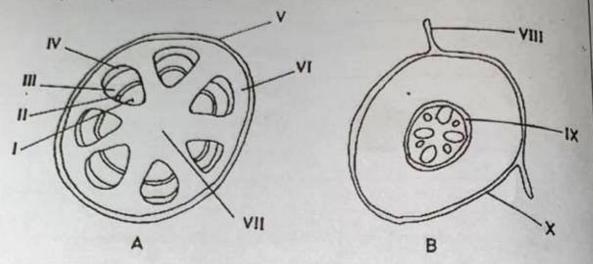
(i) ecological niche of each of organisms D and E;

D:

[2 marks]

(ii) mode of nutrition of organisms A, B and E.

 Diagrams A and B are illustrations of sections of parts of a plant. Study them and answer questions 2(a) to 2(e).



(a) (i) Mention the Class to which the plants that possess the sections in diagrams A and B belong.

[2 marks]

(ii) Name the organ in plants from which each of sections A and B is obtained.

A:	
D.	
D	

[2 marks]

(iii) Name the parts labelled I to X.

I:	VI:
П:	VII:
Ш:	VIII:
	The state of the s

v: 1X: X:

[5 marks]

pc2 PCS043/wsc/cg/24

(ACA Candidate's Full Candidate's Name: Do not write in this margin Name the labelled part which carries out each of the following functions: protection; (ii) transport of food; (iii) transport of water and mineral salt; ___ (iv) absorption of water from soil; (v) support. [5 marks] State two adaptive features each of the parts labelled IV and VIII. IV: VIII: [4 marks] State four observable structural differences between the parts illustrated in diagrams A B

[4 marks]

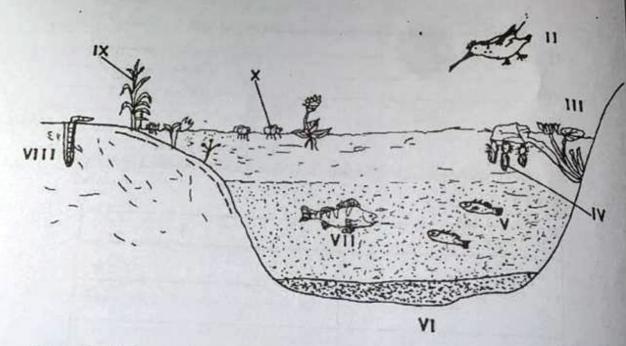
Name the biological process involved in the following functions in plants:

(i) transport of food;

(ii) transport of water and mineral salts; _

(iii) absorption of water from soil. [3 marks] The diagram below is an illustration of a community in an aquatic ecosystem. Study it and answerquestions 3(a) to 3(e).





(a) Identify the parts labelled I to X.

. It

II:

III:______IV:

V:

VI:

VII:_

VIII:_

IX;

X:____

[5 marks]

write in

pc2/PCS043/wsc/cg/24

[4 marks]

END OF PAPER