

231/2
BIOLOGY
Paper 2
(PRACTICAL)
Oct./Nov. 2000
2 ¼ hours

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1 You are provided with a specimen labelled D.

(a) (i) Name the phylum to which the specimen belongs. (1 mark)

.....

(ii) State three characteristics found in the members belonging to the phylum. (3 marks)

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(b) (i) Name the class to which the specimen belongs. (1 mark)

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(ii) State four characteristics found in the members of the class. (4 marks)

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.....

(c) Remove, draw and label the mouthparts used for:

(i) Biting and chewing food (3 marks)

(ii) Holding food (3 marks)

(iii) Feeling and tasting food. (3 marks)

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(d) Examine the wings of the specimen. State the differences between them. (2 marks)

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You are provided with specimens labelled E, F and G.

(a) With reasons, state which parts of a plant are specimens E, F and G. (10 marks)

E
Reasons

F
Reasons

G
Reasons

Make a longitudinal section through specimen G.

(b) Draw and label the specimen. (4 marks)

(c) (i) Name the vitamin present in specimen E. (1 mark)

(ii) What are the two functions of the vitamin named in (c)(i) above. (2 marks)

(c) State three differences between specimens F and G. (3 marks)

- 3 You are provided with a substance labelled H.
Filter the substance and collect the filtrate. Filtration is expected to be complete after about 30 minutes.
Using the reagents provided, test for the food substances in the residue and the filtrate.
Record your procedures, observations and conclusions in the tables below. (20 marks)

RESIDUE

Food Substance	Procedure	Observations	Conclusion

FILTRATE

Food Substance	Procedure	Observations	Conclusion

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