BINDURA UNIVERSITY OF SCIENCE EDUCATION BIOLOGICAL SCIENCES DEPARTMENT BScBZH DIVERSITY OF LIFE II (BZH102)

EXAMINATION 2 HOURS (100 MARKS)

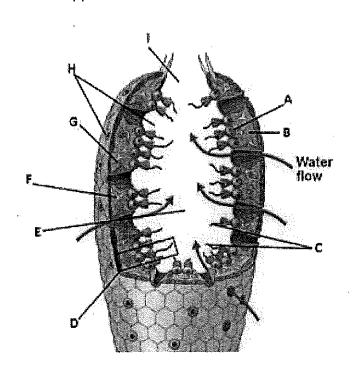
= AUG 2004

INSTRUCTIONS TO CANDIDATES

Answer FOUR questions. You MUST answer QUESTION 1 (Section A) and any THREE questions from section B. Each question carries 25 MARKS. Where a question contains subdivisions, the mark value of each sub-division is given in brackets. Illustrate your answer where appropriate with large clearly labelled diagrams. You should not spend more than thirty minutes on each question.

Section A (Compulsory)

1. (a) Figure 1 shows Leucosolenia spp.



(i) State the grade of organisation displayed by Leucosolenia spp.

(1 mark)

(ii) Name the parts labelled A to I.

(9 marks)

(b) Outline the life cycle of Obelia spp.

(15 marks)

Section B

2. (a) Describe the triploblastic body plan of animals.

(15 marks)

(b) With the aid of annotated diagrams, describe the anatomy of a generalized Annelid.

(10 marks)

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| 3. Describe the general features of Platyheminthes and show how parasitic. | these have been modified in |
| 4. Write brief notes on any FIVE of the following: (a) Bilateral symmetry. (b) Pseudocoelomate animals. (c) Locomotion in annelids. (d) General characteristics of Molluscs. (e) General characteristics of vertebrate animals. (f) Reproduction in nematodes. | (5 marks) (5 marks) (5 marks) (5 marks) (5 marks) (5 marks) |
| 5. Describe embryonic development in the Protostomia and Deute | erostomia. |
| 6. (a) Justify the inclusion of the Annelida, Mollusca and Arthropoda. (b) Describe the feeding babits in phylum Arthropoda. | oda in the protostome lineage. (10 marks) (15 marks) |

END OF EXAMINATION QUESTION PAPER