

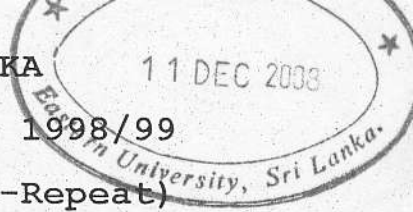
EASTERN UNIVERSITY, SRI LANKA

EXTERNAL DEGREE EXAM IN SCIENCE - 1998/99

SECOND EXAMINATION IN SCIENCE (Re-Repeat)

(2004/2005 - March/May 2008)

EXTBT- 202 / DEVELOPMENTAL PHYSIOLOGY



Answer **4** questions

Time: Two hour

1. Briefly explain the followings;

- a). Activity of the phytochrome in flowering plants.
- b). Activity of enzymes in carbohydrate metabolism during seed germination.
- c). Activity of nitrate & nitrite reductases in nitrogen fixation.

2.

- a). List five plant movements.
- b). Write the signal and response of plants for the above mentioned movements (a).
- c). Write briefly their importance in functioning plants.

3. Write short notes on the followings;

- a). Phototropism
- b). Seed dormancy

4.

- a). Write briefly on three effects of Auxins in plants.
- b). Write the importance of ABA in stomatal movement.
- c). Explain "Abscission is a combination effect of hormones in plants".

5. Compare the followings;

- a). Scarification and Stratification.
- b). Short day plants and long day plants.
- c). Organic nitrogen and foliar nitrogen.

6. a). Write at least three bioassays for Gibberelic acid.
b). Discuss the application of Gibberelic acid.