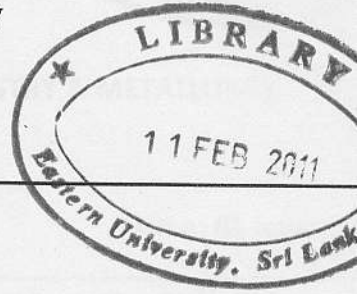


EASTERN UNIVERSITY, SRI LANKA
THIRD EXAMINATION IN SCIENCE – 2008 / 2009
SECOND SEMESTER – (SEPTEMBER – NOVEMBER 2010)

BT 304 / Developmental Physiology



Answer all questions

Duration: 02 hour

1.
 - a). **What is photoperiod?**
 - b). **Give the plant organ responsible for light perception and the pigment responsible for photoperiodism.**
 - c). **Describe briefly the structure and functions of the pigment**

2. **Write short notes on;**
 - a). **Effect of auxin in plant development and the uses of synthetic auxins.**
 - b). **Senescence**
 - c). **Nastic movements in plants**

3.
 - a). **Define “essential elements” with regard to plant nutrition.**
 - b). **List the above essential elements.**
 - c). **Briefly discuss the main roles of any three essential elements in plant function and give their deficiency symptoms.**

4. **Write briefly on;**
 - a). **Nitrogen metabolism in plants.**
 - b). **Inhibitors of seed germination**