

Eastern University, Sri Lanka



External Degree Examination in Science

Third Year Second Semester Examination in Science 2010/2011 (July 2016) - Repeat

EXTBT 304, Developmental Physiology

Answer all Questions

Time: 02 hours

1. Write briefly the followings with suitable diagrams, **if necessary**.

- (a) Phytohormones
- (b) Long-day plants
- (c) Negative gravitropism
- (d) Seed dormancy

(30 minutes)

2. Briefly describe the followings

- (a) Nitrogen deficiency in plants
- (b) Cold treatment for inducing flowering

(30 minutes)

3. Write short notes on the followings

- (a) Biological nitrogen fixation
- (b) Abscission layer

(30 minutes)

4. Compare the followings

- (a) Sand culture and hydroponics
- (b) *Pytochrome-red* and *Phytochrome fa-rred* in flowering of plants

(30 minutes)