

**BSc in Export Agriculture**

**Third Year Second Semester Examination – August 2021**

**Ecophysiology (EAG 314-2)**

**Open Book Examination - Essay Questions**

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**Instructions:**

Answer **only one (01)** question from the following. The answers should be hand-written. Write your Name/Reg. number in each page. You are allowed to refer lecture notes, journal articles, text books or any other material. Submit your answers to VLE or email to [chandima@uwu.ac.lk](mailto:chandima@uwu.ac.lk) **before 11:30 am**. You have given **one (01) hour (10:00 am-11:00 am)** to answer the questions and **30 minutes to submit** (11:00 am-11:30 am).

Please make sure that your answers are correctly uploaded to VLE. Please re-check whether the answers are in the system after uploading.

No. of questions : Two (02)  
No. of pages : One (01)  
Time : One (01) hour (**10:00 am – 11:00 am**)  
Submit before **11:30 am**  
Total marks allocated : 40%

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01. CO<sub>2</sub> levels are predicted to increase in the future. Write an article to a newspaper highlighting the potential effect of rising CO<sub>2</sub> on crops and weeds under the topic “Rising CO<sub>2</sub>: Friend or Enemy to Agriculture”.

02. Drought and heat stress often occur simultaneously. Assume that you are a researcher who is planning to screen varieties that are better adaptive to drought and heat stress. Discuss about the **desirable morphological, anatomical and physiological characteristics** that you consider in screening for drought and heat adaptive varieties giving reasons for each. You can select **one of the following** crops as an example.

- I. Rice
- II. Maize
- III. Potato
- IV. Tomato

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