

The Open University of Sri Lanka
Faculty of Engineering Technology
Department of Agricultural and Plantation Engineering



Study Programme : Bachelor of Industrial Studies Honours
(Agriculture)
Name of the Examination : Final Examination
Course Code and Title : AGI3551 Agricultural Biology
Academic Year : 2021/2022
Date : 22nd February 2023
Time : 13.30 - 16.30 hrs

Index No. -----

SECTION 2: Answer any four (04) questions.

1. Explain the biological functions of proteins inside the body of the organisms.
2. Explain the following on photosynthesis
 - a. Conditions necessary for photosynthesis
 - b. Effect of different coloured rays of light on photosynthesis
3. Describe the factors affecting the rate of cellular respiration.
4. Discuss the factors affecting fruit quality.
5. A certain plant species exhibits the formation of Pink, Red or White flowers. Results from four crosses between these varieties are set out below. Explain these results.

Cross	Progeny		
	White	Red	Yellow
(i) Pink x Red	0	104	108
(ii) White x Red	124	0	125
(iii) Pink x White	0	0	113
(iv) Red x Red	41	41	85

6. Explain the transcription and translation of protein synthesis.

