

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Agriculture

Semester	: VI (New)	Term	: Second	Academic Year	: 2022-23
Course No.	: ENGG 364	Title	: Protected Cultivation and Secondary Agriculture		
Credits	: 2 (1+1)				
Day & Date	: Friday, 07.07.2023	Time	: 14:00 to 16:00 hrs.	Total Marks	: 40

- Note :
1. Solve ANY EIGHT questions from SECTION 'A'.
 2. All questions from SECTION 'B' are compulsory
 3. All questions carry equal marks.
 4. Draw neat diagram wherever necessary.

SECTION 'A'

- Q.1 What is greenhouse? What are the advantages of using greenhouses?
- Q.2 Give the detail classification of greenhouses based on shape, utility, construction and covering material with neat diagram.
- Q.3 Explain in brief about greenhouse plant response to light and ventilation.
- Q.4 Discuss in brief about the factors considered for site selection of greenhouse.
- Q.5 Enlist the covering material used for greenhouse. State the properties of an ideal greenhouse covering material.
- Q.6 List out the different irrigation systems used in greenhouse. Explain the drip irrigation system in detail.
- Q.7 Define drying. What are the advantages of grain drying?
- Q.8 The moisture content of a paddy sample was determined in dry basis (%) was observed to be 24. Convert the dry basis (%) moisture content to wet basis (%) moisture content.
- Q.9 Enlist different types of dryers. Explain the construction and working of Baffle dryer with neat diagram.
- Q.10 Enlist the different material handling equipments. Explain the working principle of screw conveyor.

SECTION 'B'

- Q.11 Define the following terms:

- | | |
|---------------------------------|----------------|
| 1) Greenhouse effect | 2) Glazing |
| 3) Equilibrium moisture content | 4) Dehydration |

- Q.12 Fill in the blanks:

- 1) The light intensity is measured by the international unit, known as _____.
- 2) The production of carbohydrates from carbon dioxide and water in the presence of chlorophyll, using light energy, is known as _____.
- 3) In deep bed drying, the grains are spread in a layer more than _____ cm.
- 4) A _____ is an endless belt, operating between two pulleys with its load supported on idlers.

