MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION
B.Sc. (Hons.) A.B.M.

Semester	: III (New)	Term	: First	Academic Year	: 2023-24
Course No.	: ENGG 232	Title	: Protected Cultivation and Secondary Agriculture		
Credits	: 2 (1+1)				
Day & Date	: Wednesday, 13.12.2023	Time	: 9:00 to 11:00 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 Define Greenhouse effect. Give the advantages of greenhouse.

Q.2 State different moisture measurement methods of grain and explain direct method of moisture measurement in short.

Q.3 Discuss the effect of light and ventilation with reference to microclimate on greenhouse crop.

Q.4 Enlist the different irrigation systems used in greenhouse. Explain drip irrigation system.

Q.5 Enlist different engineering properties of agricultural material. Explain physical properties in detail.

Q.6 A 700 kg of wet pigeon pea at 23% moisture content (wb) is dried to 12% moisture content (wb) for milling. Calculate the amount of moisture evaporated in drying.

Q.7 Write short notes on (Any Two):

a) Construction material wood and bamboo

b) Site selection criteria

c) Fluidized bed dryer

Q.8 Describe the working of belt conveyor with a neat sketch.

Q.9 Enlist different types of dryer and explain deep bed drying .

Q.10 Describe the working of fan and pad cooling system with a neat sketch.

SECTION 'B'

Q.11 Define the following terms:

1) Greenhouse 2) Coefficient of friction 3) Specific heat 4) Angle of repose

Q.12 Fill in the blanks:

1) The capacity of the LSU dryer varies from _____ of grain.

2) _____ refers to removal of moisture to very low levels usually to bone dry conditions.

3) _____ as covering material has the advantage of greater interior light intensity.

4) Visible and white light has wavelengths of _____ to _____ nm.

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