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

Semester	: IV (New)	Term	: Second	Academic Year	: 2023-24
Course No.	: H/AGRO 242	Title	: Introduction to Major Field Crops		
Credits	: 2 (1+1)				
Day & Date	: Wednesday, 24.04.2024	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 Agronomy and explain the scope of Agronomy.

Q.2 Enlist agro-climatic zones of Maharashtra. Give details of Western Maharashtra Scarcity Zone.

Q.3 Enlist different bases for crop classification and classify the crops based on their economic use.

Q.4 Enlist different methods of sowing and explain nursery transplanting.

Q.5 Define Crop rotation and describe the principles on which the crops should be selected for crop rotation.

Q.6 Write agronomic practices for Rice on the following aspects:

a) Soil and Climate
b) Nursery management
c) Puddling
d) Varieties

Q.7 Make one leaflet on 'Agronomic Package of Practices of Sorghum'.

Q.8 Describe cultivation of Pigeon pea on the following aspects:

a) Geographical distribution
b) Soil and Climate
c) Varieties
d) Harvesting and Yield

Q.9 Write agronomic package of practices of Soybean on the following aspects:

a) Soil and Climate
b) Seed and Sowing
c) Nutrition management
d) Harvesting

Q.10 Describe recommended package of practices for Cotton in Maharashtra state on the following aspects:

a) Plant spacing
b) Nutrition management
c) Weed management
d) Harvesting

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SECTION 'B'

Q.11 Fill in the blanks:

1) _____ is an important intercultural operation in Groundnut which facilitates peg penetration.
2) Presence of high level of _____ acid is observed in Sunflower.
3) Soybean seed contains _____ per cent oil.
4) Black gram contains _____ per cent protein.

Q.12 Match the pairs:

'A'	'B'
1) Finger millet	a) *Sesbania aculeata*
2) Little millet	b) *Pennisetum purpureum*
3) Dhaincha	c) *Eleusine coracana*
4) Napier grass	d) *Panicum sumatrense*

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