MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Horticulture

Semester	: IV (New)	Term	: Second	Academic Year	: 2022-23
Course No.	: H/AGRO 242	Title	: Introduction to Major Field Crops		
Credits	: 2 (1+1)				
Day & Date	: Saturday, 08.07.2023	Time	: 09:00 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 Enlist different agroclimatic zones of Maharashtra and explain Western Maharashtra scarcity zone in detail.

Q.2 Explain scope of agronomy and write in detail relation of agronomy with other sciences.

Q.3 Write in detail regarding cultivation of *Kharif* Sorghum on the following points:

a) Seed and sowing b) Critical growth stages

c) Varieties d) Harvesting and yield

Q.4 Prepare a leaflet of Maize cultivation on the following points:

a) Soil and climate b) Irrigation management

c) Fertilizer management d) Insect pests

Q.5 Write in detail regarding the cultivation of Pigeon pea on the following points:

a) Soil and climate b) Intercropping

c) Diseases d) Harvesting and yield

Q.6 Enlist different types of cropping systems and explain anyone cropping system in detail.

Q.7 Prepare a leaflet of Groundnut cultivation on the following points:

a) Varieties b) Manures and fertilizers

c) Critical growth stages d) Intercultural operations

Q.8 Mention objectives of tillage and write about its different types.

Q.9 Enumerate classification of fertilizers and explain water soluble fertilizers.

Q.10 Write short notes on (Any Two):

a) Methods of sowing

b) Agronomic classification of crops

c) Crop rotation

(P.T.O.)

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SECTION 'B'

Q.11 Fill in the blanks:

1) _____ is a semi-root parasite weed in Sorghum.

2) _____ is a amide fertilizer.

3) Mechanical manipulation of soil at high moisture regime, which reduces deep percolation losses, is termed as _____.

4) First cutting of Napier grass is at _____DAS.

Q.12 Match the pairs:

'A'	'B'
1) Jute	a) Green manuring crop
2) Sunhemp	b) Golden fibre
3) Pearl millet	c) Wonder crop
4) Soybean	d) Poor man's crop

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