

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) A.B.M.

Semester	: 1 (New)	Term	: First	Academic Year	: 2023-24
Course No.	: AGRO 111	Title	: Introduction to Agronomy and Crop Production Technology		
Credits	: 3 (2+1)	Time	: 10:00 to 13:00 hrs.	Total Marks	: 80
Day & Date	: Monday, 15.01.2024				

- 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. Explain the relationship of Agronomy with other sciences.
- Q.2 Define the term 'Tillage'? Explain the objectives of tillage.
- Q.3 Define Crop rotation. Write in brief the principles of crop rotation.
- Q.4 Define Manures and Fertilizers. Classify in detail the organic manures.
- Q.5 Define Irrigation. Enlist the methods of irrigation. State advantages and disadvantages of drip irrigation system.
- Q.6 Define Weed. Describe in brief the methods of weed control.
- Q.7 Define Herbicide and give the classification of herbicides on the basis of use.
- Q.8 Write in detail the cultivation of Soybean on the following aspects:
- a) Soil and Climate
 - b) Seed and Sowing
 - c) Manure and Fertilizer
 - d) Varieties
- Q.9 Describe the following points about Wheat cultivation:
- a) Soil and Climate
 - b) Seed and Sowing
 - c) Irrigation management
 - d) Yield
- Q.10 Describe in detail the cultivation practices for Sugarcane on the following points:
- a) Sowing season
 - b) Variety
 - c) Seed rate
 - d) Earthing up

(P.T.O.)

SECTION 'B'

Q.11 State True or False:

- 1) 'Digvijay' is the popular variety of Chickpea.
- 2) Orobanche is the root parasitic weed of Sorghum.
- 3) 'African tall' is the popular variety of fodder Maize.
- 4) Jethro Tull is considered as the 'Father of Tillage'.
- 5) Urea contains 16% of Nitrogen.
- 6) The process and practices used to remove excess water from the soil surface and from the soil profile is known as drainage.
- 7) Black gram belongs to the family Poaceae.
- 8) Indore method of compost is developed by Howards and Wads.

Q.12 Match the pairs:

- | 'A' | 'B' |
|--------------|---------------------------|
| 1) Groundnut | a) Linaceae |
| 2) Rice | b) <i>Cajanus cajan</i> |
| 3) Cow pea | c) Drug crop |
| 4) Tobacco | d) <i>Brassica juncea</i> |
| 5) Red gram | e) White gold |
| 6) Cotton | f) <i>Vigna sinensis</i> |
| 7) Linseed | g) Drum rolling |
| 8) Mustard | h) Puddling |

