

**MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE**  
**SEMESTER END THEORY EXAMINATION**

**B.Sc.(Hons.) Agriculture**

Semester	: IV (New)	Term	: Second	Academic Year	: 2023-24
Course No.	: AGRO 246	Title	: Crop Production Technology-II		
Credits	: 2 (1+1)		(Rabi crops)		
Day & Date	: Saturday, 04.05.2024	Time	: 9:00 to 11:00 hrs.	Total Marks	: 40
<b>Note :</b>					
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 Write in detail the cultivation of irrigated timely sown Wheat on the following points:
- Climate
  - Seed and Sowing
  - Fertilizer management
  - Irrigation management
- Q.2
- Write about the seedbed preparation, seed and sowing of *rabi* Sorghum.
  - Give the economic importance, seed and sowing of Barley.
- Q.3 Give the information of Chickpea on the following points:
- Differential characters between Desi and Kabuli gram
  - Collection of Malic acid
  - Irrigation management
  - Nipping
- Q.4 Describe in detail the cultivation of Linseed on the following points:
- Economic importance
  - Seed and Sowing
  - Land preparation
  - Harvesting and Yield
- Q.5 Describe the cultivation of French bean on the following aspects:
- Climate
  - Land preparation
  - Seed and Sowing
  - Manures and Fertilizer management
- Q.6 Explain the cultivation of *suru* Sugarcane on the following points:
- Selection of planting material
  - Importance and uses of sugarcane
  - Seasons and Time of planting in India
  - Harvesting and Yield
- Q.7 Describe in detail the cultivation of Potato on the following aspects:
- Economic importance
  - Climate
  - Seed and Sowing
  - Tuberization

(P.T.O.)

- Q.8 Describe in brief the cultivation of Mustard on the following points:
- Land preparation
  - Irrigation management
  - Soil
  - Economic importance
- Q.9 Discuss the scope of aromatic and medicinal farming over present farming.
- Q.10
- Discuss the causes of low production of forages and measures to increase its production.
  - Describe Berseem cultivation with respect to seed, sowing and harvesting.

#### SECTION 'B'

Q.11 Fill in the blanks:

- Flowering in Sugarcane is called as \_\_\_\_\_.
- \_\_\_\_\_ is a pulse crop; but does not have root nodules to fix nitrogen in plants.
- Botanical name of Sweet potato is \_\_\_\_\_.
- \_\_\_\_\_ discovered that white skinned and fleshy type Sugar beet had the sweetest juice and also was the first man to set up a sugar factory for processing of Sugar beet root to produce sugar and is said to be the 'Father of Sugar beet Industry'.

Q.12 Match the pairs:

'A'

'B'

- |               |                              |
|---------------|------------------------------|
| 1) Lucerne    | a) <i>Beta vulgaris</i>      |
| 2) Barley     | b) <i>Medicago sativa</i>    |
| 3) Sugar beet | c) <i>Hordeum vulgare</i>    |
| 4) Desi gram  | d) <i>Cicer arietinum</i>    |
|               | e) <i>Phaseolus vulgaris</i> |
|               | f) <i>Pisum sativum</i>      |

