

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE  
SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Agriculture

Semester	: IV (New)	Term	: Second	Academic Year	: 2022-23
Course No.	: AGRO 246	Title	: Crop Production Technology-II		
Credits	: 2 (1+1)		(Rabi crops)		
Day & Date	: Saturday, 15.07.2023	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 State the dry land technologies adopted while cultivating rainfed *rabi* Sorghum under rainfed condition.
- Q.2 Explain the package of practices of irrigated Wheat on the following points:
- a) Soil and climatic requirements
  - b) Varieties
  - c) Irrigation scheduling
  - d) Harvesting and yield
- Q.3 Write the package of practices of desi Brown Chickpea on the following points:
- a) Seed and sowing
  - b) Varieties
  - c) Manures and fertilizers
  - d) Harvesting and yield
- Q.4 State the cultivation of Sunflower on the following points:
- a) Field preparation
  - b) Seed and sowing
  - c) Varieties
  - d) Irrigation management
- Q.5 Write the cultivation practices of Mustard on the following aspects :
- a) Climatic requirements
  - b) Seed and sowing
  - c) Varieties
  - d) Harvesting and yield
- Q.6 State package of practices of *suru* Sugarcane on the following points:
- a) Planting
  - b) Fertilizer requirement
  - c) Varieties
  - d) Irrigation management
- Q.7 Write the cultivation practices of Tobacco on the following aspects:
- a) Soil requirements
  - b) Time of transplanting
  - c) Preparation of field
  - d) Fertilizer requirement
- Q.8 State the cultivation of Lentil on the following points:
- a) Seed and sowing
  - b) Varieties
  - c) Disease management
  - d) Harvesting and yield

(P.T.O.)

Q.9 Prepare a leaflet on the 'Cultivation of Lucerne'.

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

- a) Malting in Barley
- b) Sowing and varieties of Oat
- c) Processing of Sugar beet for sugar manufacturing

#### SECTION 'B'

Q.11 Do as directed:

- 1) Why is it essential to cover the potato tubers with soil during Interculturing operations?
- 2) Essential oil of *Mentha arvensis* is used in food, flavor industry and pharmaceutical preparations (State True or False).
- 3) \_\_\_\_\_ is used as oilseed and fiber crop (Fill in the blank).
- 4) The chief constituent of Lemon grass/Citronella oil is the citral that imparts strong lemon-like aroma (Choose the correct word).

Q.12 Match the pairs:

'A'

- 1) French bean
- 2) Safflower
- 3) Sweet potato
- 4) Sweet corn

'B'

- a) Topping
- b) Vine cuttings/ slips
- c) *Zea mays saccharata*
- d) *Pisum sativum* L.
- e) Fabaceae

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