

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END EXAMINATION

B.Sc. (Agri.)

Semester : IV (New)	Term : II	Academic Year : 2015-16
Course No. : AGRO 247	Title : Field Crops – II (Rabi Crops)	
Credits : 3 (2+1)		
Day & Date : Friday, 29.04.2016	Time : 14.00 to 17.00	Total Marks : 80

- 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 diagrams wherever necessary.

SECTION "A"

- Q.1 Describe the cultivation of sugarbeet on following points.
- 1) Planting time and method
 - 2) Varieties
 - 3) Irrigation management
 - 4) Harvesting and yield
- Q.2 Explain in detail the cultivation of irrigated wheat on following points.
- 1) Seed bed preparation
 - 2) Seed and sowing
 - 3) Nutrient management
 - 4) Harvesting and yield
- Q.3 Discuss in detail about cultivation of sunflower on the following points.
- 1) Soil and climate
 - 2) Critical growth stages
 - 3) Recommended varieties
 - 4) Harvesting and yield
- Q.4 Explain in brief the cultivation of sugarcane on following aspects.
- 1) Selection of planting material
 - 2) Preparation of sets
 - 3) Planting time and planting methods.
 - 4) Signs of maturity and yield
- Q.5 Elaborate following points in respect of *rabi* sorghum cultivation.
- 1) Soil and climate
 - 2) Seed and sowing
 - 3) Manures and fertilizers
 - 4) Harvesting and yield
- Q.6 Prepare the leaflet of berseem considering following points.
- 1) Climate
 - 2) Nutrient management
 - 3) Water management
 - 4) Harvesting and yield
- Q.7 Discuss in detail about the cultivation of chickpea with reference to following
- 1) Seed and sowing
 - 2) Recommended varieties
 - 3) Irrigation management
 - 4) Harvesting and yield
- Q.8 Describe in detail the cultivation of potato in respect to following aspects.
- 1) Seed bed preparation
 - 2) Nutrient management
 - 3) Irrigation
 - 4) Harvesting and yield

(P.T.O.)

Q.9 Discuss in detail about the cultivation of safflower on the following points.

- 1) Seed and sowing
- 2) Varieties
- 3) Irrigation management
- 4) Harvesting and yield

Q.10 Write short notes on (Any two).

- 1) Economic importance of citronella
- 2) Sun curing in tobacco
- 3) Economic importance of isabgol

SECTION "B"

Q.11 A) Fill in the blanks.

- 1) Sugar contain in sugarbeet is _____ per cent.
- 2) Oil contain in mustard is _____ per cent.
- 3) Thiourea treatment given to potato for _____.
- 4) Wheat protein contains characteristic substance _____ which provides sponginess to the bread.

B) Correct the following statements if necessary.

- 1) Sunflower is a photo-sensitive crop.
- 2) Silking and tussling is the growth stage of *rabi* sorghum.
- 3) Palmarosa oil is popularly known as cochine oil.
- 4) The fodder of berseem is nutritious for milch animals.

Q.12 Match the following pairs.

"A"

- 1) Berseem
- 2) Isabgol
- 3) Palmasora
- 4) Opium popy
- 5) French bean
- 6) Potato
- 7) Oat
- 8) Citronella grass

"B"

- a) *Papaceae*
- b) *Papaver somniferum*
- c) *Leguminoceae*
- d) *Plantago ovata*
- e) King of fodder
- f) *Cymbopogan martinii*
- g) *Solanum tuberosum L.*
- h) *Avena sativa L.*
- i) *Cymbopogan flexuosus*

