

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END EXAMINATION

B.Sc. (Agri.)

Semester : III (New)	Term : I	Academic Year : 2017-18
Course No. : AGRO 235	Title : Field Crops – I (<i>Kharif Crops</i>)	
Credits : 3(2+1)		
Day & Date : Monday, 13.11.2017	Time : 9.00 to 12.00	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 Write in brief about cultivation of irrigated hybrid cotton on the following points.
- a) Seed and sowing
 - b) Weed management
 - c) Nutrient management
 - d) Plant protection
- Q.2 Write in brief about cultivation of black gram (udid) on the following points.
- a) Soil and climate
 - b) Seed and Sowing
 - c) Manures and fertilizers
 - d) Improved varieties and yield
- Q.3 Describe the cultivation of lowland rice on the following points.
- a) Wet nursery preparation
 - b) Field preparation for transplanting
 - c) Nutrient management
 - d) Weed management
- Q.4 Discuss in detail cultivation of *grain* sorghum on the following points.
- a) Seedbed preparation
 - b) Seed and Sowing
 - c) Interculturing
 - d) Harvesting, threshing and yield
- Q.5 Explain the cultivation of pigeon pea with reference to the following points.
- a) Soil and seedbed preparation
 - b) Seed and sowing
 - c) Nutrient management
 - d) Plant protection
- Q.6 Write in detail cultivation of groundnut on the following points.
- a) Seed and sowing
 - b) Fertilizer and water management
 - c) Intercultural operation
 - d) Signs of maturity and harvesting
- Q.7 Prepare leaf-let on cultivation of the fodder maize.
- Q.8 Elaborate the management practices in respect of seed rate, cutting management and yield of the following crop.
- a) Para grass
 - b) Pearl millet for fodder
 - c) Napier grass
 - d) Cowpea for fodder
- Q.9 Discuss on seed and sowing and fertilizer management of soybean and castor crop.

(P.T.O.)

Q.10 Write short notes (Any Four).

- a) Retting in jute
- b) Describe in the brief causes for low production of fodder in India
- c) Benefit of minor millets
- d) Seed and sowing of sesame
- e) Economic importance of green gram

SECTION "B"

Q.11 Fill in the blanks.

- 1) Cotton belongs to _____ family.
- 2) Maan and Sina are the varieties of _____ crop.
- 3) In pulse crops _____ biofertilizer is used for N fixation.
- 4) The botanical name of dhaincha is _____.
- 5) Niger contains _____ % oil.
- 6) _____ crop is called king of forage crops.
- 7) Dhanshakti is high iron contain variety of _____.
- 8) Seed rate for berseem grass crop is _____ kg. per ha.

Q.12 Match the following pairs.

"A"

- 1) Tassel
- 2) *Dapog*
- 3) Bhagar
- 4) Mataki
- 5) Pedaliaceae
- 6) Hydrocyanic acid
- 7) Wonder crop
- 8) Fiber

"B"

- a) Soybean
- b) Sunhemp
- c) Rice
- d) Maize
- e) Sorghum
- f) Sesame
- g) Moth bean
- h) Barnyard

