

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END EXAMINATION

B.Sc. (Agri.)

Semester : III (New)	Term : I	Academic Year : 2011-12
Course No. : <u>AGRO 235</u>	Title : Field Crops – I (Kharif Crops)	
Credits : 3(2+1)		
Day & Date : Tuesday, 20.09.2011	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 Give the detail information of grain sorghum crop on following aspects.
- a) Soil and climate
 - b) Varieties
 - c) Seeds and sowing
 - d) Harvesting, threshing and yield
- Q.2 Describe in detail the cultivation of lowland rice on following aspects.
- a) Nursery preparation
 - b) Field preparation for transplanting
 - c) Transplanting
 - d) Manures and fertilizers
- Q.3 Give the detail information of finger millet on following aspects.
- a) Economic importance
 - b) Soil and climate
 - c) Field preparation
 - d) Harvesting, threshing and yield
- Q.4 Describe in detail the cultivation of groundnut on following points.
- a) Soil and climate
 - b) Seeds and sowing
 - c) Interculture operations
 - d) Signs of maturity and harvesting
- Q.5 Discuss in detail the cultivation of soybean on following aspects.
- a) Land preparation
 - b) Seeds and sowing
 - c) Improved varieties
 - d) Harvesting, threshing and yield
- Q.6 Describe in detail the cultivation of cotton on following aspects.
- a) Soil and climate
 - b) Field preparation
 - c) Varieties
 - d) Seeds and sowing of rainfed cotton
- Q.7 Write short notes on (Any Four)
- a) Importance of pulses
 - b) Harvesting and threshing of sesamum
 - c) Retting of jute
 - d) Economics importance of sunnhemp
 - e) Causes for lower production of fodder crops in India.

(P.T.O.)

- Q.8 Describe in detail the cultivation of pigeon pea on following points.
- Soil and climate
 - Weed management
 - Pests and diseases
 - Harvesting, threshing and yield
- Q.9 Explain in detail the cultivation of green gram (mung bean) on following points.
- Soil and climate
 - Seeds and sowing
 - Improved varieties
 - Manures and fertilizers
- Q.10 Describe in detail the cultivation of fodder pearl millet (bajra).
- Soil and climate
 - Land preparation
 - Manures and fertilizers
 - Harvesting and green fodder yield

SECTION "B"

- Q.11 Fill in the blanks.
- _____ is the family of castor.
 - Niger contains _____ % oil.
 - Sunn hemp crop grown for fibre purpose is harvested at _____ stage.
 - _____ is the family of mothbean.
 - The seed rate for capsularis species of jute for drilling is _____ kg/ha.
 - _____ acid is synthesized by young sorghum crop, which is harmful to cattle.
 - African tall is the fodder variety of _____ crop.
 - The seed rate for fodder Cowpea is _____ kg/ha.
- Q.12 Match the pairs.

"A"

"B"

- | | |
|-----------------------|-------------------------------------|
| 1) Dinanath grass | 4 a) <i>Crotalaria juncea</i> |
| 2) Blue panic | 5 b) <i>Dichanthium annulatum</i> |
| 3) Black gram | 8 c) <i>Panicum maximum</i> |
| 4) Sunn hemp | 1 d) <i>Pennisetum pedicellatum</i> |
| 5) Marvel grass | e) <i>Guizotia abyssinica</i> |
| 6) Rhodes grass | 7 f) <i>Pennisetum purpureum</i> |
| 7) Napier or Elephant | 2 g) <i>Panicum antidotale</i> |
| 8) Guinea grass | 3 h) <i>Vigna mungo</i> |
| | 6 i) <i>Chloris gayana</i> |

