

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END EXAMINATION

B.Sc. (Agri.)

15

Semester : III (New)	Term : I	Academic Year : 2010-11
Course No. : AGRO 235	Title : Field Crops – I (Kharif Crops)	
Credits : 3(2+1)		
Day & Date : Monday, 18.10.2010	Time : 9.00 to 12.00	Total Marks : 80

- Note :
1. Solve ANY FIVE 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 Explain in detail the cultivation of *kharif* sorghum on following points.
- 1) Seed and sowing
 - 2) Fertilizer management
 - 3) Intercultivation
 - 4) Plant protection
 - 5) Economic importance
- Q.2 Discuss in detail the cultivation of pigeonpea on following aspects.
- 1) Seed bed preparation
 - 2) Varieties
 - 3) Seeds and sowing
 - 4) Cropping systems
 - 5) Harvesting and yield
- Q.3 Describe in detail the cultivation of Soybean with respect to following points.
- 1) Seeds and sowing
 - 2) Seed bed preparation
 - 3) Varieties
 - 4) Fertilizer requirement
 - 5) Harvesting and yield
- Q.4 Explain in detail the cultivation of Cotton with regard to following points.
- 1) Ecology
 - 2) Seed bed preparation
 - 3) Varieties
 - 4) Fertilizer management
 - 5) Economic importance
- Q.5
- a) Prepare a leaflet on finger millet cultivation.
 - b) Describe in brief the causes for low production of fodder in India.
- Q.6 Describe in detail the cultivation of maize for grain purpose on following aspects.
- 1) Ecology
 - 2) Seeds and sowing
 - 3) Intercultivation
 - 4) Varieties
 - 5) Harvesting and yield
- Q.7 Write short notes on (Any Two)
- 1) Ecology and irrigation management in groundnut
 - 2) Constraints of oilseed productions
 - 3) Retting and Extraction process in jute

SECTION "B"

- Q.8 Fill in the blanks.
- 1) Soybean contains _____ % protein.
 - 2) _____ is the full form of IRRI.
 - 3) Sunhemp for fibre purpose should be harvested at _____ stage.

(P.T.O.)

- 4) Branches bearing bolls in cotton are termed as _____.
- 5) _____ is the major fatty acid in Niger seed.
- 6) _____ crop is said to be golden fibre of India.
- 7) The seed rate of paragrass is _____ sets/ha.
- 8) Castor belongs to family _____.
- 9) Leguminous crops always require _____ N dose.
- 10) Origin of Groundnut is _____.

Q.9 a. Complete the following tables.

Sr.No.	Name of crop	Seed rate(kg ha ⁻¹)	Variety
1)	Moth bean		
2)	Foxtail Millet		
3)	Sunhemp		
4)	Pearl Millet		
5)	Kodo Millet		

b. State True or False.

- 1) In Maharashtra the area under *rabi* sorghum is more than *kharif* sorghum.
- 2) Silking is one of the growth stages of Pearl Millet.
- 3) Niger belongs to family Compositae.
- 4) *Gossypium hirsutum* is popularly known as Indian cotton.
- 5) The seed rate of guinea grass is 500 sets / ha.

Q.10 Match the pairs.

"A"	"B"
1) Cowpea	8 a) Kodra
2) Black gram	9 b) African Tall
3) Niger	7 c) <i>Setaria italica</i>
4) Cotton	6 d) Pedaliaceae
5) Horse gram	5 e) <i>Dolichos biflours</i>
6) Sesamum	2 f) <i>Vigna mungo</i>
7) Foxtail Millet	3 g) <i>Guizotia abyssinica</i>
8) Kodo Millet	10 h) <i>Crotolaria juncea</i>
9) Fodder Maize	1 i) <i>Vigna sinensis</i>
10) Sunhemp	4 j) Spotted Bollworm

