

**MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE**  
**SEMESTER END EXAMINATION**

**B.Sc. (Agri.)**

<b>Semester</b> : III (New)	<b>Term</b> : I	<b>Academic Year</b> : 2013-14
<b>Course No.</b> : AGRO 235	<b>Title</b> : Field Crops – I (Kharif Crops)	
<b>Credits</b> : 3(2+1)		
<b>Day &amp; Date</b> : Monday, 21.10.2013	<b>Time</b> : 9.00 to 12.00	<b>Total Marks</b> : 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 Explain in detail improved cultivation practices of lowland rice on the following points.
- 1) Soil and climate
  - 2) Transplanting of seedlings
  - 3) Weed management
  - 4) Harvesting and yield
- Q.2 Describe the improved cultivation practices of Kharif sorghum on the following points.
- 1) Soil and climate
  - 2) Seeds and sowing
  - 3) Improved varieties
  - 4) Harvesting and yield
- ✓ Q.3 Explain in detail the improved cultivation practices of Pigeon pea in respect of the following points.
- 1) Soil and climate
  - 2) Seeds and sowing
  - 3) Plant protection
  - 4) Harvesting and yield
- ✓ Q.4 Discuss in detail improved cultivation practices of groundnut on the following points.
- 1) Soil and climate
  - 2) Seed and sowing
  - 3) Inter- cultivation
  - 4) Harvesting and yield
- Q.5 Prepare a leaflet on cultivation of fodder pearl millet crop the considering following points.
- 1) Seedbed preparation
  - 2) Seeds and sowing
  - 3) Nutrient management
  - 4) Harvesting and yield
- ✓ Q.6 Discuss the cultivation practices of rainfed cotton on the following points.
1. Soil and climate
  2. Seeds and sowing
  3. Recommended varieties
  4. Nutrient management
- ✓ Q.7 Describe in detail the cultivation of soybean on the following points.
- 1) Seed and sowing
  - 2) Water management
  - 3) Improved varieties
  - 4) Harvesting and yield
- ✓ Q.8 Explain in detail the cultivation practices of black gram on the following points.
- 1) Soil and climate
  - 2) Seeds and sowing
  - 3) Economic importance
  - 4) Harvesting and yield

(P.T.O.)

Q.9 Elaborate the management practices in respect of method of sowing, cutting management and yield of the following crops. ( ANY TWO)

- |                 |                      |
|-----------------|----------------------|
| 1) Fodder maize | 2) Hybrid napier     |
| 3) Para grass   | 4) Cowpea for fodder |

Q.10 Write short notes on. (ANY FOUR)

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| ✓ 1) Importance of oilseeds.      | ✓ 2) Economic importance of castor. |
| ✓ 3) Retting of jute.             | ✓ 4) Seeds and sowing of sesamum.   |
| 5) Raising of paddy seed nursery. |                                     |

SECTION "B"

Q.11 Match the pairs.

- | "A"           | "B"                                |
|---------------|------------------------------------|
| 1) Sorghum    | 5 a) <i>Glycine max</i>            |
| 2) Paddy      | 6 b) Pegging                       |
| 3) Sesamum    | 7 c) <i>Paspalum scrobiculatum</i> |
| 4) Castor     | 8 d) <i>Vipula</i>                 |
| 5) Soybean    | 4 e) Ricin                         |
| 6) Groundnut  | 3 f) JLT-7                         |
| 7) Kodomillet | 7 g) HCN                           |
| 8) Pigeonpea  | 2 h) Puddling                      |

Q.12 Fill in the blanks.

- 1) One hectare nursery area of rice is sufficient to transplant \_\_\_\_\_ hectares of main field.
- 2) \_\_\_\_\_ is the botanical name of finger millet.
- 3) Maan and sina are the varieties of \_\_\_\_\_ crop.
- 4) The origin of groundnut is \_\_\_\_\_
- 5) Kodo millet and finger millet are useful for \_\_\_\_\_ patients.
- 6) Rajco is a fodder variety of \_\_\_\_\_ crop.
- 7) \_\_\_\_\_ is the family of cluster bean.
- 8) \_\_\_\_\_ is the botanical name of niger.

