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MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END EXAMINATION

B.Sc. (Agri.)

Semester	: III (New)	Academic Year	: 2009-10
Course No.	: <u>AGRO 235</u>	Title	: Field Crops- I (Kharif crops)
Credits	: 3(2+1)		
Day & Date	: Monday, 9.11.2009	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 A farmer desires to grow Soybean crop; advise him on the following aspects.
- a) Soil and Climate
 - b) Seed and Sowing
 - c) Selection of varieties
 - d) Nutrient management
 - e) Diseases and pest management
- Q.2 Describe in detail the cultivation of green gram on the following points
- a) Land preparation
 - b) Seeds and sowing
 - c) Selection of varieties
 - d) Nutrient management
 - e) Harvesting and yield
- Q.3 Explain in detail the cultivation of sesame crop on the following points.
- a) Soil and Climate
 - b) Seeds and Sowing
 - c) Selection of varieties
 - d) Nutrient management
 - e) Harvesting and yield
- Q.4 Describe in detail the cultivation of pearl millet on the following points.
- a) Land preparation
 - b) Seeds and Sowing
 - c) Selection of varieties
 - d) Nutrient management
 - e) Harvesting and yield
- Q.5 Advise the farmer regarding cultivation of irrigated hybrid cotton.
- Q.6 Prepare a leaflet on cultivation of fodder maize.
- Q.7 Write short notes on (Any Four)
- 1) Dapog method of paddy cultivation
 - 2) Economic importance of castor
 - 3) Stepping, Retting and Extraction of fibre from sunhemp
 - 4) Retting in jute
 - 5) Drum rolling in groundnut

(P.T.O.)

SECTION "B"

Q.8 Complete the following table.

Sr.No.	Crop	Seed rate (kg ha ⁻¹)	Yield (q ha ⁻¹)
1)	Finger millet		
2)	Black gram		
3)	Barn yard millet		
4)	Niger		
5)	Sorghum		

Q.9 Fill in the blanks.

- 1) Protein content in Sesame is 18 to 20% percent.
- 2) _____ crop is called as queen of cereals.
- 3) Botanical name of sorghum is Brazill.
- 4) The origin of groundnut is Brazil.
- 5) Shanti is a variety of _____ crop.
- 6) Botanical name of pigeon pea is _____.
- 7) Cotton belongs to _____ family.
- 8) Vipula is a variety of _____ crop.
- 9) Botanical name of Paddy crop is _____.
- 10) Soybean crop is called as _____.

Q.10 Match the pairs.

- | "A" | "B" |
|----------------------|--------------------------------|
| (1) JS-335 | (a) Sesame |
| (2) JLT-26 (Padma) | (b) Niger |
| (3) Hydro cynic acid | (c) Groundnut |
| (4) IGP-76 | (d) Soybean |
| (5) JL-220 (Vyas) | (e) Sorghum |
| (6) Castor | (f) Paddy |
| (7) Indrayani | (g) Maize |
| (8) Ganga-11 | (h) <i>Ricinus communis</i> |
| (9) Napier grass | (i) <i>Panicum maximum</i> |
| (10) Guinea grass | (j) <i>Penisetum purpurium</i> |

