

**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

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





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



B.Sc. (Agri.)

Semester	: III (New)	Term	: I	Academic Year	: 2012-13
Course No.	: AGRO 235	Title	: Field Crops – I (Kharif Crops)		
Credits	: 3(2+1)				
Day & Date	: Monday, 22.10.2012	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 information on the following points about the cultivation of greengram:
- a) Economic importance
  - b) Improved varieties
  - c) Seed and Sowing
  - d) Harvesting, threshing and yield
- Q.2 Explain in details the cultivation of groundnut on the following points:
- a) Soil and Climate
  - b) Seed and Sowing
  - c) Intercultural operation
  - d) Harvesting and Yield
- Q.3 Prepare a leaflet of soybean cultivation on following points:
- a) Land preparation
  - b) Nutrient management
  - c) Improved varieties
  - d) Harvesting, threshing and yield
- Q.4 Elaborate method of sowing and harvesting of (Any Two)
- a) Dinanath grass
  - b) Para grass
  - c) Cluster bean
  - d) Hybrid Napier
- Q.5 Describe in details the cultivation of rice in SRI method on following points:
- a) Spacing and Seedling
  - b) Weed management
  - c) Water management
  - d) Yield
- Q.6 Prepare a leaflet on pigeon pea (Tur) in respect to following points:
- a) Soil and Climate
  - b) Weed management
  - c) Nutrient management
  - d) Harvesting, threshing and yield
- Q.7 Write in details regarding cultivation of Kharif sorghum on following points:
- a) Soil and Climate
  - b) Intercropping
  - c) Growth stages
  - d) Harvesting, threshing and yield

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Q.8 Advice farmer regarding cultivation of American cotton (rainfed) on following points:

- a) Selection of genotypes
- b) Nutrient management
- c) Critical growth stages
- d) Picking and Yield

Q.9 Explain in details the cultivation of maize (Fodder) on the following points:

- a) Seed and Sowing
- b) Water management
- c) Nutrient management
- d) Harvesting and Yield

Q.10 Write short notes on (Any Four)

- 1) Importance of pulses
- 2) Benefit of minor millets
- 3) Retting of jute
- 4) Factor affecting pegging in groundnut
- 5) Economic importance of cluster bean
- 6) Economic importance of sesame

#### SECTION "B"

Q.11 Fill in the blanks.

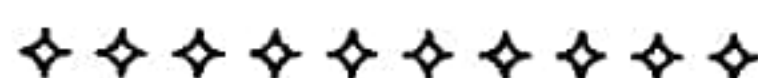
- 1) Botanical name of blackgram is \_\_\_\_\_.
- 2) Fox tail millet is also known as \_\_\_\_\_ millet.
- 3) Cotton is the \_\_\_\_\_ of fiber.
- 4) Maize is the \_\_\_\_\_ of cereals.
- 5) \_\_\_\_\_ acid is synthesized by young sorghum crops.
- 6) Castor oil cake contains \_\_\_\_\_ acid which is unfit for cattle feeding.
- 7) \_\_\_\_\_ bears the male flower in maize crop.
- 8) Botanical name of *dhaincha* is \_\_\_\_\_.

Q.12 Match the pairs.

"A"

"B"

- |                        |                              |
|------------------------|------------------------------|
| 1) Red gram            | a) <i>Gossypium hirsutum</i> |
| 2) Soybean             | b) Green manuring            |
| 3) <i>Deshi</i> cotton | c) <i>Gossypium arboreum</i> |
| 4) Sunflower           | d) Peg formation             |
| 5) Guinea grass        | e) <i>Panicum maximum</i>    |
| 6) Groundnut           | f) JS-335                    |
| 7) Sunhemp             | g) Asha                      |
| 8) American cotton     | h) Hand pollination          |

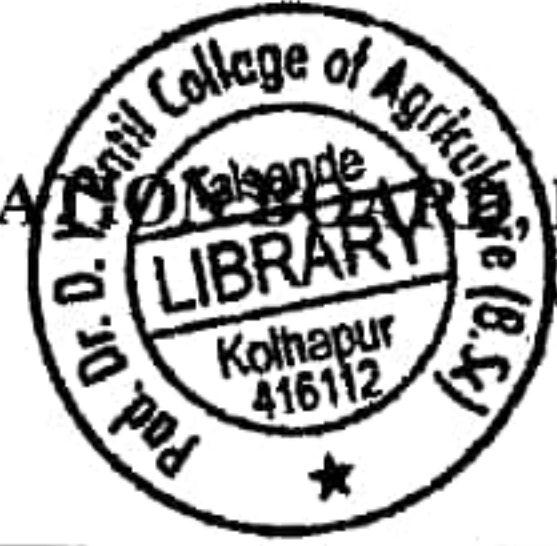




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**MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATIONS PUNE**  
**SEMESTER END EXAMINATION**

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



<b>Semester</b> : III (New)	<b>Term</b> : I	<b>Academic Year</b> : 2011-12
<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> : Tuesday, 20.09.2011	<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** 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.

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Q.8 Describe in detail the cultivation of pigeon pea on following points.

- |                       |                                    |
|-----------------------|------------------------------------|
| a) Soil and climate   | b) Weed management                 |
| c) Pests and diseases | d) Harvesting, threshing and yield |

Q.9 Explain in detail the cultivation of green gram (mung bean) on following points.

- |                       |                            |
|-----------------------|----------------------------|
| a) Soil and climate   | b) Seeds and sowing        |
| c) Improved varieties | d) Manures and fertilizers |

Q.10 Describe in detail the cultivation of fodder pearl millet (bajra).

- |                            |                                      |
|----------------------------|--------------------------------------|
| a) Soil and climate        | b) Land preparation                  |
| c) Manures and fertilizers | d) Harvesting and green fodder yield |

#### SECTION "B"

Q.11 Fill in the blanks.

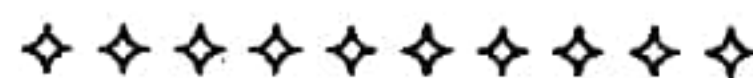
- 1) \_\_\_\_\_ is the family of castor.
- 2) Niger contains \_\_\_\_\_ % oil.
- 3) Sunnhemp crop grown for fibre purpose is harvested at \_\_\_\_\_ stage.
- 4) \_\_\_\_\_ is the family of mothbean.
- 5) The seed rate for capsularis species of jute for drilling is \_\_\_\_\_ kg/ha.
- 6) \_\_\_\_\_ acid is synthesized by young sorghum crop, which is harmful to cattle.
- 7) African tall is the fodder variety of \_\_\_\_\_ crop.
- 8) The seed rate for fodder Cowpea is \_\_\_\_\_ kg/ha.

Q.12 Match the pairs.

"A"

"B"

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





MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD PUNE  
SEMESTER END EXAMINATION

B.Sc. (Agri.)



Semester	: III (New)	Academic Year	: 2009-10
Course No.	: AGRO 235	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.

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**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

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## SECTION "B"

Q.8 Complete the following table.

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

Q.9 Fill in the blanks.

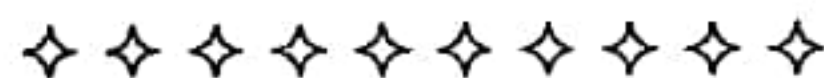
- 1) Protein content in Sesame is \_\_\_\_\_ percent.
- 2) \_\_\_\_\_ crop is called as queen of cereals.
- 3) Botanical name of sorghum is \_\_\_\_\_.
- 4) The origin of groundnut is \_\_\_\_\_.
- 5) Shanti is a variety of \_\_\_\_\_ crop.
- 6) Botanical name of pigeon pea is \_\_\_\_\_.
- 7) Cotton 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> |





MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD  
SEMESTER END EXAMINATION



B.Sc. (Agri.)

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.

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





**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> : 2015-16
<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> : Wednesday, 21.10.2015	<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 Give detail information about *Kharif* sorghum for grain purpose on following aspects.
- a) Soil and climate
  - b) Seeds and sowing
  - c) Manures and fertilizers
  - d) Harvesting and yield
- Q.2 Describe in detail about cultivation of upland rice on following points.
- a) Seeds and sowing
  - b) Manures and fertilizers
  - c) Weed management
  - d) Varieties
- Q.3 Give detail information about green gram on following aspects.
- a) Soil and climate
  - b) Seeds and sowing
  - c) Weed management
  - d) Harvesting and yield
- Q.4 Write in detail about the cultivation of cowpea on following points.
- a) Land preparation
  - b) Soil and climate
  - c) Seeds and sowing
  - d) Manures and fertilizers
- Q.5 Give detail information about *Kharif* soybean on following points
- a) Economic importance
  - b) Soil and climatic requirements
  - c) Manures and fertilizers
  - d) Harvesting and yield
- Q.6 Give detail information about cultivation of niger on following aspects.
- a) Climatic and soil requirements
  - b) Seeds and sowing
  - c) Weed management and varieties
  - d) Harvesting, threshing and yield
- Q.7 Describe in detail about cultivation of jute on following aspects.
- a) Soil and climate
  - b) Seeds and sowing
  - c) Manures and fertilizers
  - d) Harvesting, retting, extraction and yield

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Q.8 Write short notes on (Any four).

- 1) Economic importance of black gram
- 2) Economic importance of cotton
- 3) Sawant's Integrated Rice Agrotechnology (SIRA)
- 4) Pest and diseases of groundnut
- 5) Seeds and sowing of finger millet

Q.9 Describe in detail about cultivation of maize for fodder purpose on following points.

- |                            |                     |
|----------------------------|---------------------|
| a) Soil and climate        | b) Seeds and sowing |
| c) Manures and fertilizers | d) Harvesting       |

Q.10 Give detail information about stylo grass for fodder purpose on following aspects.

- |                              |                                |
|------------------------------|--------------------------------|
| a) Soil and land preparation | b) Seeds and sowing            |
| c) Manures and fertilizers   | d) Harvesting and fodder yield |

#### SECTION "B"

Q.11 Fill in the blanks.

- 1) \_\_\_\_\_ crop is called as a queen of cereals.
- 2) In BT cotton the gene of \_\_\_\_\_ bacteria is introduced for minimizing the attack of boll-worm.
- 3) Sesamum contains \_\_\_\_\_ per cent oil.
- 4) \_\_\_\_\_ is the family of pigeon pea.
- 5) Sunnhemp crop grown for fibre purpose requires \_\_\_\_\_ kg seeds per hectare.
- 6) Seed rate of proso millet for transplanting method is \_\_\_\_\_ kg/ha.
- 7) Blister beetle is the major pest of \_\_\_\_\_ crop.
- 8) \_\_\_\_\_ crop is infested with tikka disease.

Q.12 Match the following pairs.

#### "A"

- 1) Castor
- 2) Pearl millet
- 3) Groundnut
- 4) Sunhemp
- 5) Little millet
- 6) Mothbean
- 7) Dinanath grass
- 8) Foxtail millet

#### "B"

- a) Pulse crop
- b) Fodder crop
- c) Fiber crop
- d) *Poaceae*
- e) Ergot disease
- f) *Setaria italica*
- g) *Paspalum scrobiculatum*
- h) Drum rolling
- i) Aruna

