

Total No. of Questions: 6

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Enrollment No.....



Faculty of Agriculture
End Sem (Odd) Examination Dec-2019
AG3CO16 Crop Production Technology-I (Kharif crops)
Programme: B.Sc. (Ag.) Branch/Specialisation: Agriculture

Duration: 3 Hrs.

Maximum Marks: 50

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d.

- Q.1 i. The Dapog method of raising rice nursery was introduced in India 1
from -
(a) Burma (b) Japan (c) USA (d) Philippines
- ii. Most suitable temperature for growth of maize is 1
(a) 32⁰C (b) 25⁰C (c) 37⁰C (d) 15⁰C
- iii. For Kharif season blackgram, the recommended optimum seed rate 1
is kg/ha-
(a) 8-10 (b) 12-15 (c) 15-20 (d) 20-25
- iv. The type of germination in greengram is known as - 1
(a) Hypogeal (b) Epigeal
(c) Hypo-epigeal (d) Epi-hypogeal
- v. The gynophore of groundnut is commonly referred to as the - 1
(a) Monadelph (b) Pod
(c) Ovate (d) Peg
- vi. Soybean besides good quantity of protein also contains about 1
percent of oil -
(a) 40 (b) 30 (c) 20 (d) 10
- vii. The optimum population of hybrid cotton varieties is 1
around.....plants/ha.
(a) 10,000 (b) 20,000 (c) 30,000 (d) 40,000
- viii. The best observed pH for jute cultivation is..... 1
(a) 5.0-5.5 (b) 6.0-7.5 (c) 7.5-8.5 (d) 8.5-9.5

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| | ix. | The botanical name of Clusterbean..... | 1 |
| | | (a) <i>Cymopsis tetragonalaba</i> L. | |
| | | (b) <i>Avena sativa</i> | |
| | | (c) <i>Medicago sativa</i> | |
| | | (d) <i>Trifolium alexendrinum</i> | |
| | x. | Seed rate of forage sorghum is - | 1 |
| | | (a) 10-20 kg /ha (b) 35-40kg/ha | |
| | | (c) 50-60 kg/ha (d) 70-80 kg/ha | |
| Q.2 | i. | Write the botanical name, family and origin of Pearl Millet. | 1 |
| | ii. | What are the three seasons for growing rice in India? | 2 |
| | iii. | Describe the cultivation of maize under the following heads. | 5 |
| | | (a) Economic importance (b) growth stage | |
| | | (c) Climatic requirement (d) Sowing time & Spacing. | |
| | | (e) Fertilizers requirement | |
| OR | iv. | Describe the cultivation of Sorghum under the following heads. | 5 |
| | | (a) Botanical name & Family | |
| | | (b) Soil & Land preparation | |
| | | (c) Varieties, Sowing time & Seed rate | |
| | | (d) Manures & Fertilizers | |
| | | (e) Harvesting and yield | |
| Q.3 | | Attempt any two: | |
| | i. | What is the importance of pulse crops? | 4 |
| | ii. | Describe the cultivation of green gram under the following heads. | 4 |
| | | (a) Area & Distribution (b) Varieties | |
| | | (c) Seed & Sowing (d) Fertilizer requirement | |
| | iii. | Describe the cultivation of pigeon pea under the following heads | 4 |
| | | (a) Soil & Climate (b) Seed & Sowing | |
| | | (c) Insect & Disease (d) Harvesting, Threshing & Yield | |
| Q.4 | i. | Why soybean is called a wonder crop? | 2 |
| | ii. | Write down the production technology of soybean. | 6 |
| OR | iii. | Write down the production technology of groundnut. | 6 |

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| Q.5 | | Attempt any two: | |
| | i. | Give important characteristics of the four different species of Cotton cultivated in India. | 4 |
| | ii. | What is the difference between the two species i.e. <i>Corchorus Capsularis</i> and <i>Corchorus Olitorius</i> of jute? | 4 |
| | iii. | Write down the production technology of cotton. | 4 |
| Q.6 | | Attempt any two: | |
| | i. | Write down the cultivation of fodder cow pea. | 4 |
| | ii. | What toxicities may cause to animals fed with sorghum fodder ? | 4 |
| | iii. | Write down the production technology of Napier. | 4 |

Marking Scheme

AG3CO16 Crop Production Technology-I (Kharif crops)

Q.1	i.	The Dapog method of raising rice nursery was introduced in India from - (d) Philippines	1
	ii.	Most suitable temperature for growth of maize is (a) 32 ⁰ C	1
	iii.	For Kharif season blackgram, the recommended optimum seed rate is kg/ha- (b) 12-15	1
	iv.	The type of germination in greengram is known as - (b) Epigeal	1
	v.	The gynophore of groundnut is commonly referred to as the - (d) Peg	1
	vi.	Soybean besides good quantity of protein also contains about percent of oil - (c) 20	1
	vii.	The optimum population of hybrid cotton varieties is around.....plants/ha. (a) 10,000	1
	viii.	The best observed pH for jute cultivation is..... (b) 6.0-7.5	1
	ix.	The botanical name of Clusterbean..... (a) <i>Cymopsis tetragonoloba</i> L.	1
	x.	Seed rate of forage sorghum is - (b) 35-40 kg/ha	1
Q.2	i.	The botanical name, family and origin of Pearl Millet. (As per answer)	1 mark
	ii.	Three seasons for growing rice in India (As per explanation)	2 marks
	iii.	Describe the cultivation of maize under the following heads. (a) Economic importance (b) growth stage (c) Climatic requirement (d) Sowing time & Spacing. (e) Fertilizers requirement	5 1 mark 1 mark 1 mark 1 mark 1 mark

OR	iv.	Describe the cultivation of Sorghum under the following heads. (a) Botanical name & Family (b) Soil & Land preparation (c) Varieties, Sowing time & Seed rate (d) Manures & Fertilizers (e) Harvesting and yield	5 1 mark 1 mark 1 mark 1 mark 1 mark
Q.3		Attempt any two:	
	i.	Importance of pulse crops	(0.5 mark*4) 4
	ii.	Describe the cultivation of green gram under the following heads. (a) Area & Distribution (b) Varieties (c) Seed & Sowing (d) Fertilizer requirement	4 1 mark 1 mark 1 mark 1 mark
	iii.	Describe the cultivation of pigeon pea under the following heads (a) Soil & Climate (b) Seed & Sowing (c) Insect & Disease (d) Harvesting, Threshing & Yield	4 1 mark 1 mark 1 mark 1 mark
Q.4	i.	Why soybean is called a wonder crop (As per answer)	2 marks
	ii.	Production technology of soybean.	(0.5 mark*12) 6
OR	iii.	Production technology of groundnut.	(0.5 mark*12) 6
Q.5		Attempt any two:	
	i.	Four different species of Cotton cultivated in India.	(1 mark*4) 4
	ii.	Difference	(1 mark*4) 4
	iii.	Production technology of cotton	(1 mark*4) 4
Q.6		Attempt any two:	
	i.	Cultivation of fodder cow pea.	(1 mark*4) 4
	ii.	Toxicities may cause to animals fed with sorghum fodder (As per answer)	4 marks
	iii.	Production technology of Napier.	(1 mark*4) 4
