

Q.6 Attempt any two:

- i. Write the importance of forage crops of MP and India. **4** 3 5 3

ii. Write the cultivation practice of Napier grass under following points: **4** 3 5 3

 - (a) Botanical name and origin place
 - (b) Seed rate and planting method
 - (c) Fertilizer requirements
 - (d) Harvesting and yield

iii. Write the cultivation practice of Cluster bean **4** 3 5 3

 - (a) Botanical name and family
 - (b) Seed rate and planting method
 - (c) Fertilizer requirements
 - (d) Harvesting and yield

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Total No. of Questions: 6

Total No. of Printed Pages:4

Enrollment No.....



Faculty of Agriculture

End Sem Examination Dec 2024

AG3CO16

Crop Production Technology -I (Kharif Crops)

Programme: B.Sc. (Hons.) Branch/Specialisation: Agriculture

Duration: 3 Hrs.

Maximum Marks: 60

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. Assume suitable data if necessary. Notations and symbols have their usual meaning.

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- viii. Leading jute producing state in India is- **1** 1 4 1
 (a) Assam (b) West Bengal
 (c) Uttar Pradesh (d) Orissa

ix. Which fodder crop use as vegetable crop also? **1** 1 5 1
 (a) Cow pea (b) Napier cgrass
 (c) Cluster bean (d) Sorghum

x. Seed rate of fodder sorghum is **1** 1 5 1
 (a) 10-20 kg/ha. (b) 20-30 kg/ha.
 (c) 40-50 kg/ha. (d) 60-70 kg/ha.

Q.2 i. Write down the botanical name and family of Maize. 1 1 1 1

ii. Write about the inflorescence and fruit type of sorghum crop. **2** **2** **1** **1**

iii. What is SRI method for rice cultivation? **5** 2 1 1

OR iv. Write the cultivation of finger millet under 5 3 1 2 following points:

- (a) Botanical name, family
- (b) Soil and climate
- (c) Seed rate and sowing method
- (d) Sowing method
- (d) Important varieties

Q.3 i. Write down place of origin and chromosome number of pigeon pea. 1 1 2 1

ii. Write the economic importance of pulse crops. 3 3 2 2

iii. Write down the package of practices of Urdbean 4 3 2 2
under following points:

- (a) Botanical name, family
- (b) Seed rate
- (c) Important varieties
- (d) Irrigation

OR iv. Write detail about Pigeon pea crop in following heads: 4 3 2 2

- (a) Botanical name, origin
- (b) Soil and climate

- (c) Fertilizer requirements
- (d) Yield

Q.4 i. Write the botanical name and origin place of 2 1 3 1
Groundnut crop.

ii. Write the cultivation of Soybean under **6** **3** **3** **2**
following points

- (a) Botanical name, family
- (b) Soil and temperature

- (c) Seed rate and sowing method
- (d) Important varieties

- (e) Important disease and pest
- (f) Harvesting and yield

OR iii. Write detail about Groundnut crop in following 6 3 3 2 point:

- (a) Origin and chromosome number
- (b) Soil, climate & cultural practices

- (c) Seed rate and sowing method
- (d) Important varieties
- (e) Irrigation
- (f) Yield

Q.5 i. Write the economic importance of fibre crops. **2** 3 4 2
ii. Write the botanical name and family of cotton **2** 1 4 2

and jute crop.

iii. Write detail about Cotton crop in following 4 3 4 3

point:
(c) Soil dilatancy

- (a) Soil, climate
- (b) Seed rate and sowing method
- (c) Irrigation practice

(d) Irrigation
OR iv. Write detail about Jute crop in following point: 4 3 4 3

- (a) Soil, climate
- (b) Seed rate and sowing method

- (c) Fertilizer requirements
- (d) Yield

Marking Scheme**AG3CO16 (T) Crop Production Technology -I (Kharif Crops) (T)**

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| Q.1 | i) (b) Short Day | 1 |
| | ii) (b) Africa | 1 |
| | iii) (b) Pigeonpea | 1 |
| | iv) (a) India | 1 |
| | v) (b) 45x10 cm | 1 |
| | vi) (a) 70-80 kg/ha | 1 |
| | vii) (b) Malvaceae | 1 |
| | viii) (b) West Bengal | 1 |
| | ix) (a) Cow pea | 1 |
| | x) (c) 40-50 kg/ha | 1 |
| Q.2 | i. Write down botanical name and family of Maize. | 1 Marks |
| | ii. Write the inflorescence and fruit type of sorghum crop. | 2 Marks |
| | iii. What is SRI method for rice cultivation? | 5 Marks |
| OR | iv. Write the cultivation of finger millet under following points (a) Botanical name, Family (b) Soil and Climate (c) Seed rate and Sowing Method (d) Sowing Method (e) Important Varieties | 5 Marks |
| Q.3 | i. Write down origin place and chromosome number of Pigeon pea. | 1 Marks |
| | ii. Write the economic importance of pulse crops. | 3 Marks |
| | iii. Write down the package of practices of Urdbean under following points-- (a) Botanical name, Family (b) Seed rate (c) Important Varieties (d) Irrigation | 4 Marks |
| OR | iv. Write detail about Pigeon pea crop in following point -- (a) Botanical name ,Origin (b) Soil and Climate (c) Fertilizer requirements (d) Yield | 4 Marks |

- Q.4 i. Write the botanical name and origin place of Groundnut crop. 2 Marks
- ii. Write the cultivation of Soybean under following points 6
- (a)Botanical name, Family 1 Marks
 (b) Percentage of oil and protein 1 Marks
 (c) Seed rate and Sowing Method 1 Marks
 (d) Important Varieties 1 Marks
 (e) Important Disease and Pest 1 Marks
 (f) Harvesting and yield 1 Marks
- OR iii. Write detail about Groundnut crop in following point --
- (a) Origin and chromosome no 1 Marks
 (b) Soil, Climate & Cultural Practices 1 Marks
 (c)Percentage of oil and protein 1 Marks
 (d) Important Varieties 1 Marks
 (e) Irrigation 1 Marks
 (f) Yield 1 Marks
- Q.5 i. Write the economic importance of fibre crops. 2 Marks
 ii. Write the botanical name Family of cotton and jute crop. 2 Marks
 OR iii. Write detail about Cotton crop in following point --
 (a) Soil, Climate 1 Marks
 (b) Seed rate and Sowing Method 1 Marks
 (c) Important Varieties 1 Marks
 (d) Irrigation 1 Marks
- iv. Write detail about Jute crop in following point --
 (a) Soil, Climate 1 Marks
 (b) Seed rate and Sowing Method 1 Marks
 (c) Fertilizer requirements 1 Marks
 (d) Yield 1 Marks
- Q.6 Attempt any two:
- i. Write the importance of forage crops of MP and India. 4 Marks
 ii. Write the cultivation practice of Napier grass under following points
 (a) Botanical name and origin place 1 Marks
 (b) Seed rate and Planting Method 1 Marks

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| (c) Fertilizer requirements | 1 Marks |
| (d) Harvesting and yield | 1 Marks |
| iii. Write the cultivation practice of Cluster bean under following points | 4 |
| (a) Botanical name and family | 1 Marks |
| (b) Seed rate and Planting Method | 1 Marks |
| (c) Fertilizer requirements | 1 Marks |
| (d) Harvesting and yield | 1 Marks |
