JHARKHAND Rai University
RANCHI

PRACTICE SET

End Semester (3rd Semester) Examination, December 2025

Program: B. Sc. (Hons.) Agriculture
Semester: III
Course: Crop Production Technology –I (Kharif crop)
Course Code: 13A.208
Course Outcomes:

At the end of the course the students will be able to

CO1 Learn the origin, geographical distribution, economic importance, agro-climatic requirements, varieties, and yield of major Kharif cereals, millets, pulses, oilseeds, and fodder crops.

CO2 Know the improved production technologies of major Kharif cereals, millets, and pulses.

CO3 Understand and apply the improved package of practices for Kharif oilseeds and fodder crops through practical exposure.

CO4 Acquire hands-on experience by practicing the production of selected Kharif crops at the University farm.

Unit / Module-1

Section: I (5 Marks questions, Lower order Thinking -LOT)

Sl. No.	Model Questions	Bloom Taxonomy	CO
1.	Illustrate economic importance of rice crop and discuss the Dapog method of raising rice nursery.	Apply	CO1
2.	List the varieties of rice, maize and sorghum.	Remember	CO1
3.	Describe briefly integrated weed management in rice.	Understand	CO1
4.	Discuss in detail about sowing time of paddy.	Understand	CO1
5.	Summarise the importance of millet crop in food and nutritional security in India.	Understand	CO1

Section: II (15 Marks questions, Higher Order Thinking- HOT)

Sl. No.	Model Questions	Bloom Taxonomy	CO
6.	Explain the recommended package of practices of maize with its estimated yield in India and Jharkhand.	Analyze	CO1
7.	Classify maize based on characteristics of kernels. Evaluate why Kharif crops cannot be grown in Rabi season in open field condition?	Evaluate	CO1
8.	Explain the recommended package of practices of sorghum with its estimated yield in India and Jharkhand.	Analyze	CO1
9.	Explain the recommended package of finger millet with its estimated yield in Jharkhand.	Analyze	CO1
10.	Explain the recommended package of practices of rice with its estimated yield.	Analyze	CO1

Unit / Module-2

Section: I (5 Marks questions, Lower order Thinking -LOT)

Sl. No.	Model Questions	Bloom Taxonomy	CO
11.	Enlist names of any three kharif pulses with their scientific name, chromosome number and two varieties for each.	Remember	CO2
12.	Interpret the importance of pulse in human diet. Explain the importance of water management in critical stage of growth in pulses.	Understand	CO2
13.	Enlist five recommended varieties each of pigeon pea and black gram for Jharkhand.	Remember	CO2
14.	Briefly discuss the economic importance of green gram.	Understand	CO2
15.	Summaries the classification and cropping system of pigeon pea.	Understand	CO2

Section: II (15 Marks questions, Higher Order Thinking-HOT)

Sl. No.	Model Questions	Bloom Taxonomy	CO

16.	Explain in details the cultivation practices of pigeon pea on the following points: a. climate and soil b. irrigation management c. seed sowing d. fertilizer management	Analyze	CO2
17.	Explain the package of practices of mung bean recommended for Jharkhand with its estimated production and productivity.	Analyze	CO2
18.	Explain the package of practices of pigeon pea for recommended Jharkhand with its estimated yield.	Analyze	CO2
19.	Explain the recommended package of practices of green gram for Jharkhand along with its estimated yield.	Analyze	CO2
20.	Explain the package of practices of urd bean for recommended Jharkhand with its estimated yield.	Analyze	CO2

Unit / Module-3

Section: I (5 Marks questions, Lower order Thinking -LOT)

Sl. No.	Model Questions	Bloom Taxonomy	CO
21.	Compare *Corchorus capsularis* with *Corchorus olitorius*.	Understand	CO3
22.	Prepare a chart of different cotton crop species with their scientific name and chromosome number.	Apply	CO3
23.	Enlist any three varieties of groundnut and cotton.	Remember	CO3
24.	Summarise the role of sulphur in oilseeds crops.	Understand	CO3
25.	State the different operations in jute namely retting, stripping, and grading.	Remember	CO3

Section: II (15 Marks questions, Higher Order Thinking-HOT)

Sl. No.	Model Questions	Bloom Taxonomy	CO
26.	Analyse in details the cultivation practices of cotton on the following points: a.economics importance b. fertilizer management c. seed sowing d. harvesting	Analyze	CO3
27.	Explain the package of practices of soyabean recommended for Jharkhand with its estimated yield.	Analyze	CO3

28.	Explain the production technology of jute under following heads: (a) origin and distribution and improved varieties (b) soil and seed rate and spacing (c) fertilizer and irrigation management (e) weed and disease management	Analyze	CO3
29.	Explain the recommended package of practices of cotton with its estimated yield.	Analyze	CO3
30.	Explain the recommended package of practices of groundnut with its estimated yield.	Analyze	CO3

Unit / Module-4

Section: I (5 Marks questions, Lower order Thinking -LOT)

Sl. No.	Model Questions	Bloom Taxonomy	CO
31.	Illustrate, how crop spacing is an important criteria in cultivation of crop.	Apply	CO4
32.	Enlist names of any three *kharif* fodder with their scientific name, chromosome number and two varieties for each.	Remember	CO4
33.	Discuss irrigation and harvesting procedure in napier grass.	Understand	CO4
34.	A farmer apply 3 bags urea (46%N) of capacity 50kg in 1ha area. Find out nitrogen application rate (kg/ha) used by him.	Apply	CO4
35.	Discuss the economic importance of cluster beans.	Understand	CO4

Section: II (15 Marks questions, Higher Order Thinking-HOT)

Sl. No.	Model Questions	Bloom Taxonomy	CO
36.	Explain the recommended package of practices of any fodder crop with its estimated yield in World, India and Jharkhand.	Analyze	CO4
37.	Analyze the geographical distribution and economic importance of Napier grass. Evaluate the modern methods of irrigation in brief.	Evaluate	CO4

38.	Explain the recommended package of practices of cluster bean with its estimated yield. Why is excessive irrigation harmful to the crops?	Analyze	CO4
39.	Evaluate the economic importance and geographical distribution of fodder sorghum. Explain the critical role of the monsoon season in the success of Kharif crop cultivation.	Evaluate	CO4
40.	Explain the recommended package of practices of cowpea with its estimated yield.	Analyze	CO4

CO- wise

CO	Q.No.	Marks
CO1	1-10	100
CO2	11-20	100
CO3	21-30	100
CO4	31-40	100
Total		400

Unit-wise

Unit	Q.No.	Marks
1	1-10	100
2	11-20	100
3	21-30	100
4	31-40	100
Total		400

BTL- wise

BTL	Q.No.	Marks
LOT	20	100
HOT	20	300
Total		400

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Disclaimer: - This is a practice set. The Question in End semester examination will differ from the practice set. This practice set is meant for practice only.