



9. In which retting system of Jute, the outer skin is mechanically removed from the stem of a mature plants, coiled and left to undergo retting under water
  - a. Ribbon retting
  - b. Stalk retting
  - c. Dew retting
  - d. Water retting
10. Select among the following commercial crop that belongs to the Solanaceae family.
  - a. Sugarcane
  - b. Tobacco
  - c. Cotton
  - d. Jute

**Fill in the blanks.**

11. In case of potatoes, older leaves develop dark brown circular to angular ring or lesions, indicating a disease commonly known as .....blight
12. The appropriate time for second top dressing of nitrogen fertilizer in potato is on .....stage
13. Long fibre present in seed cotton are known as .....
14. Based on studies regarding the origin of sugarcane, it has been determined that sugarcane originated in.....
15. The Brix value used in hand refractometer for assessing sugarcane maturity is .....
16. The year .....was declared as International year of Potato
17. The plant height of *C. capsularis* is .....than *C. olitorius*
18. ....is an asexual propagation method that can produce virus free seeds of potato.
19. A parasitic weed of tobacco that lacks chlorophyll is known as .....
20. ....are the first leaves to ripen and to be harvested in tobacco.

KATHMANDU UNIVERSITY

End Semester Examination

January/February 2024

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Level : B.Sc.

Year : II

Time : 2 hrs. 30 mins.

Course : AGRS 225

Semester : II

F.M. : 40

SECTION "B"

[6Q × 4 = 24 marks]

Attempt *ANY SIX* questions

1. How do you decide harvesting time of Jute crop? Explain about water retting of Jute and extraction of fibre for bale preparation.
2. Describe about the internal and external structure of potato tuber with well labelled diagram
3. Explain various stages of growth in cotton plant.
4. What are the major pests of cotton? Suggest Integrated Pest Management strategy for these pests.
5. Explain various techniques to enhance the yield of ratoon crops in sugarcane.
6. Describe about harvesting and irrigation management of potato
7. Discuss on the topping and desuckering practices in tobacco.

SECTION "C"

[2Q. × 8 = 16 marks]

Attempt *ANY TWO* questions.

8. Elaborate on the nutrient management of potatoes, emphasizing role of essential nutrients in both plant and tuber growth. Give detail description regarding the application rate, time, place and source of these nutrients.
9. Discuss the appropriate season, land preparation, seed selection and sowing techniques for planting sugarcane. Explain about various methods used in sugarcane plantation.
10. Provide a detailed discussion on the significance and various uses of tobacco. Describe about various methods of tobacco curing.

