

B.Sc. (Honours) Agriculture Semester-IV Examination, 2019

Course No: AGR-221 Crop Production Technology II (Rabi Crops)

Signature of Centre Superintendent

Roll No. : (in figure) _____ (in words) _____

Student Index No. _____ Regn. No. _____ of _____

Time : Two Hours

Full marks : 50

Questions are of value as indicated in the margin

Part - I
(Objective and Short Answer Type)
(Use only ball point pen)

Time : 30 minutes

Full marks : 20

- Note:** 1. Answer in question paper itself.
2. Striking, rewriting or overwriting are not allowed in the objective type questions.

1. **Tick (✓) the correct alternatives:** 1×5=5
- i) Among the pulses, maximum area in India is covered by a) Pigeon Pea b) Lentil c) Chick pea d) Field pea
 - ii) The cultivation practices of sowing seeds in standing paddy crop 15-20 days before harvesting at optimum soil moisture is called a) intercropping b) Overlap cropping c) Paira cropping d) Multiple cropping
 - iii) Varieties of berseem are a) BL-I b) Warden c) Bundel Berseem d) Ali e) Mescavi
 - iv) 'Dehauling' of potato is done to check the a) Aphid b) Virus c) White fly d) Bacteria population
 - v) Brix value of sugarcane is a) 16-18 b) 20-23 c) 11-15 d) above 25
2. **Fill up the blanks :** 1×5=5
- i) CRI is a critical stage of wheat for _____.
 - ii) Nicotine content of *Nicotiana tabacum* is _____%
 - iii) Scientific name of safflower is _____
 - iv) Seed rate of oat is _____ kg/ha.
 - v) Tuberization temperature for potato is _____
3. **Write in brief about the following (any five) :** 2×5=10
- a) Sowing time and fertilizer management in fodder oat.

P.T.O.

(2)

b) Industrial importance of Barley

c) Water management in wheat

d) Nipping in Chickpea

e) Ratoon management in sugarcane

f) Lathyrism

g) Grading of seed tuber

B.Sc. (Honours) Agriculture Examination, 2019

Semester-IV

Course No: AGR-221

Crop Production Technology II (Rabi Crops)

Part - II
(Descriptive Type)

Time : 90 Minutes

Full marks : 30

Questions are of value as indicated in the margin

Answer *any three* questions

4. Write in short about the package of practices of chick pea cultivation in West Bengal with special reference to soil and climate, sowing attributes, varieties, fertilizer and water management, weed management and yield. 2+2+1+3+1+1=10
 5. Write in short about the cultivation practices of potato in West Bengal with reference to soil and climatic requirements, sowing attributes, fertilizer management, weed management, varieties and yield. 2+2+2+2+1+1=10
 6. a) Classify Rapeseed-Mustard
b) Differentiate between Rapeseed and Mustard in terms of morphology.
c) Write in details about the production technology of sugarcane with special reference to season of planting, method of planting and fertiliser management. 2+2+(1+2+3)=10
 7. a) Explain the package of practices of late sown irrigated wheat with special reference to time of sowing, seed rate and spacing. fertilizer management. What are the characteristics of high yielding dwarf varieties? 2+2+(1+2+3)=10
b) Write a note on the toxicity of fodder oats. State four varieties of oats. Mention the green fodder harvesting schedule of berseem. (1+1+2+1.5)+(2+1+1.5)=10
 8. Write short notes on (**any five**) : 2×5=10
 - a) Six round barley
 - b) Durum Wheat
 - c) TPS
 - d) Priming
 - e) Symptoms of sugarcane maturity
 - f) Pungency in rapeseed mustard
 - g) Uses of safflower
 - h) Importance of sunflower cultivation
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