

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

Course No: AGR-221[Old] Field Crops II (Rabi)

Signature of Centre Superintendent

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

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

Time : Two Hours

Full marks : 40

Questions are of value as indicated in the margin

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

Time : 20 minutes

Full marks : 10

Note: 1. Answer in question paper itself.

2. Striking, rewriting or overwriting are not allowed in the objective type questions.

1. **State True (T) or False (F) in respect the following statements :**

0.5×4=2

(a) Lentil is popularly grown in Utera system by broadcasting in Eastern India.

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(b) Berseem seeds are inoculated by *Phizobilum tritolii*.

☐

(c) Gluten in wheat flour is known for its expending property.

☐

(d) If brix reading shows 19 and above, the cane is ready for harvest.

☐

2. **Fill up the blanks with most appropriate words :**

0.5×8=4

(a) Subrata is the variety of _____.

(b) The place of origin of sunflower is _____.

(c) _____ acid in mustard oil is considered as anti-nutritional factor.

(d) _____ method of irrigation is practiced in sugarcane for in increasing water use efficiency.

(e) _____ crop is considered as most drought resistant crop among oil seeds.

(f) The scientific name of linseed is _____.

(g) Dye is prepared out of flowers of _____ oilseed crop.

(h) One variety of chick pea for cultivation in West Bengal is _____.

3. **Tick (✓) the correct alternatives:**

0.5×8=4

a) West Bengal stands i) First ii) Second iii) Third in area and production of potato crop in India

b) Seedlings of True Potato Seed (TPS) are transplanted at i) 30 days ii) 40 days iii) 50 days age

c) Oat is grown in mixture with i) Sorghum ii) Berseem iii) Cowpea

d) The pink colour of nodules is due to the presence of i) leghaemoglobin ii) Neuntoxin
iii) Chlorophyll iv) Allelochemicals

e) The most critical stage for irrigation in wheat is i) CRI ii) Tillering iii) Flowering iv) Dough

f) Ideal sugarcane seed are available from i) Basal ii) Middle iii) Top portion of the cane

g) Seed plot Technique is applicable to i) potato ii) Sugarcane iii) Wheat

h) Neelum and Mukta are the varieties of i) linseed ii) Safflower iii) Sunflower

B.Sc. (Ag.) Honours Examination, 2019

Semester-IV

Course No: AGR-221 (Old)

Field Crops II (Rabi)

Part - II
(Descriptive Type)

Time : 100 Minutes

Full marks : 30

Questions are of value as indicated in the margin

Answer *any three* questions

4. a) What are the differences between rape seed and mustard? 2×5=10
b) Why ammonium sulphate is advocated as a source of nitrogen and single super phosphate as source of phosphorus in rape seed and mustard crop?
c) Name some popular varieties of rape seed and mustard.
d) How pungency of mustard can be improved?
e) Discuss climatic requirement and time of sowing of rape seed and mustard.
5. a) Discuss the effect of temperature in successful cultivation of potato. 2×5=10
b) State the reasons for quality seed potato, growers of West Bengals are to depend on growers of Punjab state.
c) Highlight the importance of earthing up operation in cultivation of potato.
d) What do you mean by multi-nutrient recommendation of fertilizers instead of age-old NPK recommendation?
e) Despite having better taste and cooking quality why cultivation of Kufri Chandramukhi is not popular among potato growers
6. a) Discuss the constraints of wheat cultivation in eastern India. 2.5×4=10
b) Suggest the measures to overcome those constraints.
c) State the scheduling of irrigation in wheat under limited and adequate supply of irrigation of water.
d) Mention some wheat varieties for timely sown and late sown condition.
7. a) Classify chick pea on the basis of seed coat, seed colour and size of the seed. 2.5×4=10
b) Why requirement of phosphatic fertilizer is almost two and half times than that of nitrogen in chickpea and lentil crop?
c) Write down in water management in chickpea.
d) Write the scope of lathyrus in rice fallow
8. Classify different sugarcane sp. Mention different seasons of sugarcane cultivation. Write down in brief various methods of sugarcane planting. State the ratoon management in sugarcane 1+1+4+4=10
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