

B.Sc.(Ag.) Honours Semester– III Examination, 2014

Course No. : AGR –212 Field Crops-I (Forage Crops and Millets)

Signature of Centre Superintendent

(Old Syllabus)

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)

Answer all questions

Time : 30 minutes

Full marks : 20

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

1. Write True (T) or False (F) for the following statements within space provided 1×10=10

- | | |
|---|--------------------------|
| (i) African tall is a variety of Napier grass | <input type="checkbox"/> |
| (ii) Rice bean is a dual purpose crop | <input type="checkbox"/> |
| (iii) Grass-legume mixture is a balanced feed for animals | <input type="checkbox"/> |
| (iv) Stubble height is a pre-requisite for re-growth of any fodder crop | <input type="checkbox"/> |
| (v) Ragi is grown during winter season | <input type="checkbox"/> |
| (vi) Silo is a container for making silage | <input type="checkbox"/> |
| (vii) Bio fuel is produced from fodder maize | <input type="checkbox"/> |
| (viii) Finger millet is a cross pollinated crop | <input type="checkbox"/> |
| (ix) Warden is a variety of berseem | <input type="checkbox"/> |
| (x) Tasseling is found in maize fodder | <input type="checkbox"/> |

2. Fill in the blanks with suitable answer.

1×10=10

- (i) Great millet is grown during _____ season
- (ii) *Rhizobium trifolii* culture is used for seed inoculation of _____
- (iii) Cluster bean is commercially important due to its _____
- (iv) Oxalic acid toxicity is found in _____ fodder
- (v) Lactic acid fermentation occurs during _____ making
- (vi) _____ a pasture grass
- (vii) Botanical name of cluster bean is _____
- (viii) Hybrid Napier is a cross between _____ and _____
- (ix) Optimum time of sowing of sorghum fodder is _____
- (x) Nitrate poisoning is found in _____ fodder.

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Part–II

(Descriptive Type)

Time : 1.5 Hours

Full marks : 30

Questions are of value as indicated in the margin.

Answer *any four* questions

3. Write down the fodder production scenario in India and West Bengal in particular. Explain various reasons for toxicity development in Jowar fodder. How can the toxicity be overcome?
3+2+2.5=7.5
 4. Write down in brief on method of propagation, nutrient management and green fodder harvesting schedule of Napier-Bajra hybrid. State green fodder cutting management in cowpea. 5+2.5=7.5
 5. Write down the agro-techniques for berseem cultivation in relation to seed inoculation, sowing time, cutting schedule and green fodder yield. Explain in brief about sowing time and nutrient management of Dinanath grass. 5+2.5=7.5
 6. Write down the package of practices for Bajra cultivation with reference to sowing time, seed rate, intercultural operation and nutrient management. State in brief about sowing time, seed rate, irrigation management and cutting schedule of oats fodder. 4+3.5=7.5
 7. Differentiate between silage and Hay. State the types of fermentation that occur during silage making. Mention the various grades of silage. Classify the pasture. 2+2.5+1+2=7.5
 8. Write down the agro-techniques of rice bean cultivation with reference to sowing time, seed rate, nutrient management and green fodder harvest. Write down the cultivation practices of cluster bean in relation to interculture operation, cutting schedule and green fodder yield. 4+3.5=7.5
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