

M.Sc. (Ag.) Semester-II Examination 2017

Agronomy

Course : AGR 512

(Agronomy of Fodder and Forage Crops)

Time : 3 Hours

Full Marks : 50

Questions are of value as indicated in the margin

Answer **any five** questions

1. Classify fodder crops. Write down the improved techniques for cultivation of fodder oats with reference to sowing time, seed rate, spacing, fertilizer application, irrigation schedule and green fodder yield. Mention at least four varieties of fodder oats. 2+6+2=10
 2. State in brief about agronomic management of napier grass cultivation with respect to planting variables, fertilizer application and green fodder cutting schedule. Mention the criteria of selection for stem cutting of napier grass. What are napier grass and hybrid napier grass? 5+3+2=10
 3. Write down the package of practices for cluster bean with reference to soil and climate, seed and sowing, water and weed management. State the multipurpose use of cluster bean and its toxicity. 6+(2+2)=10
 4. Briefly discuss on the agro-techniques of rice bean cultivation in relation to ecological requirement, fertilizer and irrigation management, crop mixture and harvesting. Write down the climatic requirement of cowpea and its nutritive value. 6+(2+2)=10
 5. Briefly discuss on the agro-techniques of fodder maize. Write about adaptation, varieties and utilities of fodder sorghum. 5+(3+1+1)=10
 6. Give a brief account of different species of Stylo in relation to their usefulness as forage crop. Write about agro-techniques for cultivation of stylo in India. Enlist advantages of dinanath grass as forage crop. 4+4+2=10
 7. Write short notes on **any four** of the following : 2.5×4=10
 - (a) Grass-legume mixture
 - (b) Nitrate poisoning in oats
 - (c) Types of berseem varieties
 - (d) Nutritive value of berseem
 - (e) Toxin management in sorghum
 - (f) Soil and climatic requirement for fodder maize
 8. Differentiate between **any four** of the following : 2.5×4=10
 - (a) Fodder and forage crops
 - (b) Single cut and multi-cut fodder
 - (c) Silage and hay
 - (d) Fodder grasses and fodder legumes
 - (e) Guinea grass and buffel grass
 - (f) Fodder maize and fodder sorghum
-