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KERALA AGRICULTURAL UNIVERSITY

B. Sc. (Hons.) Ag. 2018 admission II Semester Final Examination-July-2019

sac,1203 Manures, Fertilizers and Soil fertility management (2+1) M

Marks: 50

(1x10=10)

Time: 2 hours

Fill in the blanks (10x1=10)The predominant phosphate in single superphosphate is.....is a neutral nitrogenous fertilizer. 2 An example for organic chemical fertilizer is..... 3 Fertilizer which contains two or more plant nutrients obtained by manual mixing of two or 4 more straight fertilizer is..... Nitrogen content in the fertilizer Ammonium sulphate is..... 5 State True or False The micro organism Azotobacter fixes atmospheric nitrogen. 6 The process of conversion of organic form of N to inorganic form of N is termed as 7 immobilization. Blood meal is an example for concentrated organic manure. 8 Ammonium sulphate is an acid forming nitrogenous fertilizer. 9 In SSNM approach, omission plot technique is used for N- management. 10 Write short notes on ANY FIVE of the following (5x2=10)Give the classification of phosphatic fertilizers based on solubility with example. 1 2 Define hidden hunger. 3 Differentiate nitrification and de-nitrification processes. Write about Arnon's Criteria of Essentiality of nutrients. 4 Write short note on Fertilizer Control Order. 5 6 Write a note on classification of organic manures. What do you understand by Integrated Plant Nutrient System? Answer ANY FIVE of the following (5x4=20)Briefly discuss on the manufacturing methods of (NH₄)₂SO₄. 1 What are secondary nutrients? Briefly discuss important role in plant nutrition and their 2 deficiency symptoms. Enumerate on leaf colour chart based N management. 3 Briefly discuss on nitrogen transformations in soils. 4 Give an account on sulphur cycle. 5 Give a brief note on lime requirement of an acid soil and liming materials used for 6 reclamation of acid soils. Discuss on phosphorus cycle in soil. 7

Explain about Nutrient Use Efficiencies of major and micro nutrients and enhancement

Write an essay on ANY ONE of the following

Give an account on soil fertility evaluation approaches.