MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END EXAMINATION

B.Sc. (Hons.) Horticulture

Semester	: II (New)	Term	: II	Academic Year	: 2017-18
Course No.	: H/SSAC 122	Title	: Soil Fertility and Nutrient Management		
Credits	: 2 (1+1)				
Day & Date	: Friday, 04.05.2018	Time	: 09.00 to 11.00	Total Marks	: 40

Note : 1. Solve **ANY EIGHT** questions from **SECTION "A"**.
2. All questions from **SECTION "B"** are compulsory.
3. All questions carry equal marks.
4. Draw neat diagrams wherever necessary.

SECTION "A"

Q.1 Define soil fertility and soil productivity. Illustrate the factors affecting soil fertility.

Q.2 What is organic matter decomposition? Give the factors affecting decomposition.

Q.3 Define fertilizers. Give the advantages and disadvantages of fertilizers mixtures.

Q.4 What is integrated nutrient management? Give its importance in agriculture.

Q.5 Give the classification of nitrogenous fertilizers with examples.

Q.6 Define soil fertility evaluation. State the methods of soil fertility evaluation.

Q.7 What is STCR? Give the advantages of STCR.

Q.8 Write down the functions and deficiency symptoms of calcium as an essential plant nutrient.

Q.9 What are micronutrient fertilizers? Give the examples of micronutrient carrying fertilizers.

Q.10 What are biofertilizers? State types of biofertilizers and explain any one.

SECTION "B"

Q.11 Match the following pairs.

"A"	"B"
1) Magnesium	a) Reclamation of alkali soils
2) Lime	b) Formation of oils and fats
3) Boron	c) Reclamation of soil acidity
4) Gypsum	d) Translocation of sugar

Q.12 Do as directed.

1) State any two processes involved in transport of nutrients from soil to roots.
2) Give two names of potassic fertilizers.
3) Define luxury consumption.
4) Define alkalization process in soil.

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