MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END EXAMINATION

B.Sc. (Hons.) Horticulture

Semester	: II (New)	Term	: II	Academic Year	: July 2018-19
Course No.	: H/SSAC 122	Title	: Soil Fertility and Nutrient Management		
Credits	: 2 (1+1)				
Day & Date	: Friday, 10.05.2019	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 Describe in detail mechanisms of nutrient transport from soil to plant.

Q.2 Define soil fertility evaluation. Enlist different methods of soil fertility evaluation.

Q.3 Write importance of pH in plant nutrition.

Q.4 Write short notes (Any Two).
a) Fertilizer Control Order (FCO) b) Visual diagnosis deficiency symptoms
c) Micronutrient fertilizers

Q.5 Give difference between manure and fertilizer.

Q.6 Explain IPNS and give its advantages.

Q.7 State different methods of reclamation of saline soil.

Q.8 Define biofertilizer. Write importance of biofertilizer in agriculture.

Q.9 Define fertilizer and classify NPK fertilizers with one example each.

Q.10 What are different fertilizer recommended approaches? Describe STCR concept.

SECTION "B"

Q.11 Fill in the blanks.
1) The fertilizers containing two or more major plant nutrients, which are in chemical combination are called _____.
2) The organism _____ is sensitive to the phosphorus status of the growing medium.
3) Long forms of DRIS is _____.
4) _____ is defined as the extent to which the nutrients and management practices interact to give a specific yield level.

Q.12 Match the following pairs.

"A"	"B"
1) Toxic element	a) Iron
2) Beneficial nutrient	b) Boron
3) E. Gris	c) Arsenic
4) Cracking of fruit	d) Silicon