

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD. PUNE
SEMESTER END EXAMINATION

B.B.A. (Agri.)

Semester : II (New)	Term : II	Academic Year : 2016-17
Course No. : SSAC 121	Title : Soil Fertility, Fertilizers and Nutrient Management	
Credits : 2 (1+1)		
Day & Date : Thursday, 11.05.2017	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 Enlist the methods of soil fertility evaluation and explain in detail any one technique.
- Q.2 Define saline soil. Explain management and reclamation of saline soil.
- Q.3 Enlist different methods of fertilizer application and explain in detail fertigation.
- Q.4 Define soil. Explain factors affecting nutrient availability.
- Q.5 Define fertilizer. Give the classification of nitrogenous fertilizer.
- Q.6 Give the types of green manuring. Explain its advantages and disadvantages.
- Q.7 Give the functions and deficiency symptoms of nitrogen in plant.
- Q.8 Enlist different mechanisms of nutrient uptake. Explain in detail diffusion along with concentration gradient.
- Q.9 What is INM? Describe the importance and components of INM.
- Q.10 Define nutrient and classify essential nutrients.

SECTION "B"

Q.11 Define the following terms.

- | | |
|------------------------|----------------------|
| 1) Beneficial nutrient | 2) Heavy metal |
| 3) Soil fertility | 4) Soil productivity |

Q.12 Fill in the blanks.

- 1) Essentiality of boron element was first established by _____.
- 2) Whiptail disease in cauliflower is caused by the deficiency of _____.
- 3) In urea fertilizer, nitrogen is present in _____ form.
- 4) Rice absorbs nitrogen in _____ form.

