MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION
B.Sc.(Hons.) A.B.M.

Semester	: V (New)	Term	: First	Academic Year	: 2022-23
Course No.	: SSAC 352	Title	: Manures, Fertilizers and Soil Fertility Management		
Credits	: 3(2+1)				
Day & Date	: Wednesday, 01.02.2023	Time	: 14:00 to 17:00 hrs.	Total Marks	: 80

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 diagram wherever necessary.

SECTION 'A'

Q.1 Define green manuring. Explain the advantages of green manuring.

Q.2 Enlist the methods of soil fertility evaluation and explain in detail any one of them.

Q.3 Comment on the factors affecting nutrient availability.

Q.4 Define compost. Give the methods of composting and explain Bangalore method.

Q.5 What is the concept of INM? Describe the components and importance of INM.

Q.6 Define fertilizer. Give the classification of nitrogenous fertilizers.

Q.7 Write the role of organic manure in soil fertility.

Q.8 What is FYM? Give a brief account on preparation methods of FYM.

Q.9 Enumerate the nutrient deficiency symptoms of plants.

Q.10 Write down the precautions for storage of fertilizers.

SECTION 'B'

Q.11 State True or False:

1) Nutrients that are required in relatively small quantity; but are essential, are termed as macronutrients.
2) Green manure becomes ready within a short time.
3) In urea fertilizer, nitrogen is present in ammonical form.
4) Blue green algae and Azolla fix atmospheric nitrogen in the flooded rice fields.
5) Rice absorbs nitrogen in amide form.
6) Ammonium sulphate fertilizer produces acidity in the soil.
7) Urban or town compost is prepared from night soil and town waste.
8) A straight fertilizer is one having only one nutrient.

(P.T.O.)

Q.12 Fill in the blanks:

1) Soil test indicates the _____.

2) Urea contains _____ per cent nitrogen.

3) _____ introduced the term 'Functional nutrients'.

4) _____ nutrient element shows luxury composition in plants.

5) Plants with less than _____% N, is regarded as Nitrogen stunted growth.

6) Indicator plant for Mn deficiency is_____.

7) The criterion of nutrient essentiality of nutrient element to plants was given by _____.

8) Deficiency of nitrogen in plants first appears on _____.

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