

Roll No.

Total No. of Pages : 02

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B.Sc. (Hons.) (Agriculture) (Sem.-5)

MANURES, FERTILIZERS AND SOIL FERTILITY MANAGEMENT

Subject Code : BSAG-502-19

M.Code : 90941

Date of Examination : 14-12-22

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A is COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **FIVE** questions carrying **FIVE** marks each and students have to attempt any **FOUR** questions.
3. **SECTION-C** contains **THREE** questions carrying **TEN** marks each and students have to attempt any **TWO** questions.

SECTION-A

1. Write briefly :

- Green leaf manure
- Biogas slurry
- Nano urea
- Indicator plant
- Vermiwash
- Soil testing
- Toxicity symptoms
- Rainfed
- Fertigation
- Soil fertility evaluation.

SECTION-B

2. Discuss criteria of essentiality of plant nutrients. Who gave criteria of essentiality?
3. What do you know about integrated nutrient management?
4. Discuss the precautions while storing fertilizers.
5. Discuss the mechanism of nutrient transport to plants.
6. Discuss methods of fertilizer application under rainfed conditions.

SECTION-C

7. Differentiate macro and micro nutrients. Write down deficiency symptoms of zinc and iron and how their deficiency can be rectified? Write down the season and crops in which deficiency of Zn and Fe is observed.
8. Define vermi-composting. Discuss different types of earth worms used for vermi-composting. Write down complete procedure of vermi-composting.
 - i) Write down-concentration of nutrients in vermi-compost.
 - ii) Explain advantages and disadvantages of bulky organic manures.
 - iii) Discuss rapid tissue test.
9. What do you know about nutrient use efficiency?
 - i) Discuss forms of primary nutrients in the soil.
 - ii) Discuss the fertilizer control order, in detail.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.