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Total No. of Pages : 02

Total No. of Questions : 18

B.Tech. (Agriculture Engineering) (Sem.-3)

**AGRICULTURE FOR ENGINEERS**

Subject Code : BTAG301-19

M.Code : 78587

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****Write briefly :**

- 1) Differentiate between rejuvenation and top working.
- 2) Enlist the essential nutrients required by plants.
- 3) In what form are the major plant nutrients absorbed by plants?
- 4) Write short note on :
  - a) Aeolian landform
  - b) Marine landform
- 5) In which soils gypsum application is recommended and write down the amount of gypsum that can be added to soil at one time.
- 6) What do you mean by SAR? Write an equation representing SAR.
- 7) What is modern concept of tillage?
- 8) What is 'soil tilth'?
- 9) How do you classify orchids?
- 10) Differentiate between rock and mineral.





**SECTION-B**

- 11) What are the criteria for judging the quality of irrigation water on the basis of EC and RSC?
- 12) What is the difference between soil fertility and soil productivity?
- 13) Discuss the effect of climatic factors on crop growth and development.
- 14) Name the micronutrient which is immobile in plants? Khaira disease occurs due to the deficiency of which nutrient?
- 15) Discuss important techniques of nursery raising of vegetables under protected conditions.

**SECTION-C**

- 16) What are the five factors of soil formation? Discuss the role of vegetation in soil formation.
- 17) What are saline and alkaline soils? How they are formed. Describe chemical methods for the reclamation of acid soil.
- 18) Differentiate between training and pruning. Discuss in detail different methods used for training and pruning of fruit crops.

**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.**

