

Printed Pages : 3



EAG-104

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 180116

Roll No.

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B. Tech.

(SEM. I) (ODD SEM.) THEORY
EXAMINATION, 2014-15
AGRICULTURE FOR ENGINEERS

Time : 3 Hours]

[Total Marks : 100

Note : The question paper is divided into three sections.
Attempt each section.

SECTION-A

- 1 Attempt the following short answer type **10×2=20**
questions :
- Define Bulk density and pore space.
 - Define E_C (Electrical conductivity) of soil. What does it signifies.
 - Why soil samples are dried at 105°C in an Oven for soil moisture analysis.

- (d) What do you understand by Floriculture and marketing status?
- (e) Why red soil appears red in colour.
- (f) What is tillage? Give the objectives of primary tillage.
- (g) Define weeds. List the harmful effects.
- (h) What is mulching. Give a list of different types of mulching.
- (i) What do you understand by particle size distribution of soil particles?
- (j) For what purposes resistance blocks are used and what are their limitations.

SECTION-B

2 Attempt any three parts of the following : **10×3=30**

- (a) Discuss soil organic matter, its composition and decomposition, its effect on soil health and crop production.
- (b) What is the status and scope of horticultural or medicinal crop production in our state?
- (c) Enumerate the micro and macro plant nutrients. What are their functions in plants? Explain.
- (d) Define Irrigation and irrigation scheduling. Explain drip irrigation methodology.
- (e) Discuss the sorting, grading and packaging technology of mango fruits.

SECTION-C

- 3** Attempt any five question : **10×5=50**
- (a) Explain the soil, water plant relationship with the help of neat sketch?
 - (b) Discuss important soil physical properties and their importance in crop production.
 - (c) Discuss the production technology of Brinjal and tomato.
 - (d) How nursery could be propagated round the year in erratic weather conditions of your area?
 - (e) What is soil and explain the soil formation from various rocks and minerals.
 - (f) For modern time, briefly explain the layout of planting methods and plant growing structures commonly used in our country.
 - (g) Write short notes on :
 - (i) Acidic and saline soil.
 - (ii) Buffer cropping and mixed cropping.
 - (iii) Soil texture and soil structure.
 - (iv) Water management.
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