



Tara Government College Sangareddy (Autonomous) An ISO 9001: 2015 certified college

Department of Botany

CERTIFICATE COURSE IN SOIL TESTING

The MoU has been done between the department of Botany and Soil Testing Lab, Sangareddy, for two years where Smt. Haritha Madam, Asistant Director of Agriculture has signed the agreement and agreed on the importance and the usefulness of establishing scientific and academic links.

The objective of this MoU is to train the students and to fecilitate the testing of the samples collected randomly by the students. Nearly 50-60 students have been given the training in the month of December- 2021 in two batches. The analysis was done for the samples collected by the students and the report was given by the lab authorites. Based on the report the levels of Macro and Micro nutrients have been identified. The students visited the farmers and recommended the use of Bioferilisers prepared by the Department.

A certificate course has been introduced in soil testing, the classes were taken by the faculty in the Botany Dept. and an examination has also been conducted and the certificate has been given to the students.



Memorandum of Understanding (MoU) Between DEPT OF BOTANY, TARA GOVERNMENT COLLEGE (A), SANGAREDY & SOIL TESTING LAB, SANGAREDDY



Soil Testing Lab, Sangareddy and Department of Botany, Tara Government College, Sangaredy agree on the importance and the usefulness of establishing scientific and academic links, in order to assert and to consolidate the ties of friendship hetween two departments. The subject to mutual consent, the area of cooperation will include the following aspects;

- 1. The objective of this MoU is to facilitate the testing of samples collected by the students for macro and micro nutrient analysis.
- 2. Participation in seminars and workshops.
- 3. Extension Lectures and Training.
- 4. Certificate programs and projects for skill development.
- Coordination in creating awareness among the farmers for the significance f soil testing to have a better yield.
- 6. Quality enhancement initiatives.

TERMS OF IMPLEMENTATION:

1. Details of the implementation of any particular exchange resulting from this MoU shall be negotiated between the two organizations.

2. This MoU becomes effective on the day it is signed and remains valid for two years.

3. This MoU will be renewed after two years upon the consent of both organizations.

4. Any amendment or modification to the present text shall be submitted for review to the competent authorities, and shall not binding unless reduced to writing and signed by both the organizations.

5. This MoU does not bind either of the two parties legally or financially. Its aim is to promote relations that will mutually benefit each organization, this being the primary aim of academic collaboration.

In witness where of, the organizations here to have offered their signatures.

PRINFINALPAL iovi College LEGE **HAMOUS** 02001

Head of Papartment, Dapathmenho Bolanyy Tara Government, Collano (A) Sangareddy Sez but Telsa .

Asst Director of Agriculture Soil Testing Laboratory Soil Testing Laboratory Soil Testing Laboratory SANGAREDDY-502 001



Asst.Director-Ms. Haritha Madam

Training the Students



Training the Students



Soil Testing Lab, Sangareddy



Principal Ms. M.Praveena Madam addressing the Students



Certificates given to the students



| | | PG.NO |
|------|------------------------------------------------------------------------------------|-------|
| S.NO | CONTENTS | |
| 1 | INTRODUCTION SOIL HEALTH MANAGEMENT IMPORTANCE AND OBJECTIVES | |
| 2 | IMPORTANCE OF SOIL TESTING | |
| 3 | SOIL SAMPLING METHODS AND PROCEDURES | |
| ч | SOIL PARAMETERES | |
| 5 | DETERMINATION OF SOIL COLOUR AND TENTURE BY #112, D-METHOD FEEL | |
| 0 | DETERMINATION OF SOIL REACTION | |
| 7 | DETERMINATION OF ELECTONIC CONDUCTIVITY | |
| s | DETERMINATION OF ORGANIC CARBON | |
| 9 | DETERMINATION OF AVAILABLE NITROGEN | |
| 10 | DETERMINATION OF AVAILABLE PHOSPHORUS | |
| 11 | DETERMINATION OF AVAILABLE POTASSIUM | |
| 12 | DETERMINATION OF BORON | |
| 13 | DETERMINATION OF SULPHUR | |
| 14 | DETERMINATION OF MICRO NUTRIENTS | |
| 15 | INTERPRETATION OF SOIL TEST $^{\mathfrak{DHIR}}_{\Lambda}$: Ranges & Reclamations | |

Scanned with CamScanner

| . 6 | | | | | 1. | 1. | 1 | 1 | . 1 | | | 1 | 4. m | 4 4 | 4 |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------|-----------------|-----|-----|-----|-------|-----|------------|--------|------|-------|-----------|--------|
| | | 1 . | 14 | banhote | J. | 5 | 4 | 1 1 | 1 | 18,15 | 11. 15 | | | 2 20 3 | a land |
| 1 1 1 | And shute | Anit | | | 1 | 1. | 3 | | 4 | 1 4 | 1:10 | .1. | 1 .15 | n 16 ! | |
| Si Name of the | Kr a Man | Constant and | 1.: | B Sawinga | 1 | 1 | 11 | 4. | 0 | 0 9 | 19.1 | P | 1 9 | PIP. | 1.22 |
| as staded | and the second second | aze | | | 1 | P | 8 | | 0 | PIP | 19,9 | 9 | 8 8 | 9 9 | 1.00 |
| 1 | and the los of | Rel | in | A Duin Park | f | 10 | 0 | | 0 | 01 | PP | P | 09 | 8 18 | |
| | | A. 44 | | | P | 1 | 11 | 1 1 | 1.1 | 0 1 | 10 1 | 18 | 8.8 | P.P. | |
| ale take take | PARE .7 1444 ACI | | 10 | E. Pharmi | 1 | 0 | 0 | n r | 6 | 0.0 | 18 1 | P | 9 9 | IP P : | 8:20 |
| | fons it was ran | | 5 | 1. Salkanth | P | le | 1 | P | r | 0 0 | 01 | P | 8 9 | PP | 8:21 |
| I a rate and h | ins in turn C.46 | 1.000 | R | 11.51 | 10 | P | 1 | PI 1 | P | 0 0 | 0 0 | 10 | 0 9 | 9.9 | 8.20 |
| | ters in not chi | P.XI | F | II .vishnu | | 1. | 1. | PP | 18 | 1 1 | 0 . 6 | 101 | 0.0 | 09 | 8.20 |
| a a salar | FAR IA UNA. PLE | ARI | p | 1. Mamder | P | P | 1. | 1.1 | P | r .r. | 1 : 1 | 10 | 0 0 | 0.0 | 0 24 |
| S | ters is was - the | a designed a | ii | K Aruna | | 1 | P_ | 1.8 | P, | 8 . P | ,r r | IN | 00 | 0 0 | 8 22 |
| S towned Alguns | fest - M was - Ch | ALL | 10 | K. Haunika | 8 | P | 1 | PP | 18 | 818 | P . P | 8 | 1.1 | 10.0 | |
| a Know Detroite | 14 Lus - 664 | Nº21 | 1.2 | k. Vistand - | P | 1 | 1. | 1 9 | PI | 8 8 | P P | 11 | 113 | 1.1 | 1 .2: |
| in a selen | icss in wus chi | AXL | 1 (2) | K. Sharry. | 11 | 1 | 18 | 9 9 | 11 | 1 1 | 19.1 | - P | PP | : P . P . | 9,33 |
| - I dental | St . 11 405.061 | 1.11 | 1 | L Varyalt | P | 11. | P | p p | P | 8.8 | 1016 | P | 1 .8 | :P.P. | 1.24 |
| Bride Bingani | 1-58 -14 445 . Che | tzt . | | M. Jancor | 1 | P | 10 | 10 | P | PP | 8 18 | 18 | 18 8 | 9.8 | 1.23 |
| Sinde Coupins | fe as -1 + 1115 - 071 | ALL | 10 | R. Divijation | P | 8 | P | 0 0 | 10 | 8 8 | P | PP | 8.8 | .9.9 | 8.9 |
| Wene offer | fost -14- 445 - 089 | Bitt | Ē | R.manesha | 1 | p | 0 | 4.1 | | 0 0 | 0 6 | 1 p | 0.0 | 10 P | 8:33 |
| | 1058 -19.445 - 091 | Btt. | | Rimanusan | 0 | 0 | - | 4.1 | | r | 0 0 | 10 | 0 0 | 00 | P 4. |
| | 645 -19-445 -092 | OTL | F. | R. Out | 1 | | 14 | E: P. | | r . r. | 0 0 | 10 | 0 0 | 10 0 | 1 |
| - Manner | 1-55-19-LAUS- 095 | B7L | I. | T. sralatha | r | Hr- | +r_ | EL. P | ۴. | r | | | | ter. | 1 2 |
| | 458-19-445-097 | BTL | Fr. | Julan U.S. Bhay | P_ | -1- | 12 | R.P | , P | 8.10 | 1 4 14 | -1.1 | 1.1 | 11.1. | 1.12 |
| - M. HANDON | (-58-19-443 - 014. | BZL | R | v. vanaja | | P. | Le_ | 1.1. | 11 | P.P. | 18 11 | .1 P | P. P | .P .P. | 1 32 |
| 4- 12954 12AA/A | 103-17-645-103 | BTBC | m. | Auna. | .1. | .f. | 1 | 1 1 | 18 | 8 8 | 1 | PIP | P P | P.P | 1:20 |
| - su mantra | 655-17572 - Col | | 6 | Ravan | P | Pi | A | PP | P | PP | 19:1 | P | PP | . 9.9 | 12 |
| | \$ \$-M-572-003 | _BTEC | - | G Sheehika Dh_ | 8 | 9 | P | 00 | 11 | PiP | 9 . | 9 9 | 18 9 | 9.9 | 8.2 |
| | c54-14-571-005 | 8784 | | OP4 | 0 | 0 | 0 | 0 0 | P | 00 | 1011 | 2.2 | 2.8 | 8 9 | Pis |
| - 24. Kallen Sei Prosem 6 | est -19- 570-006 | B16C | Ē. | ey | 0 | 0 | 1 | d- | 10 | 8 · P | 101 | 00 | 0 0 | 0 0 | 12 |
| . 15, K Anil6 | ess-19-671-007 | ALA | m. | | 0 | 10 | P | + | - | 0 0 | | 0 0 | 0 .0 | 10 0 | 0. 1 |
| _ 26; Muldaill or x lika la | 51-14-571-008 | BTBC | 11- | M. Nrulkg | | 1- | r | P-P. | 12- | 0 0 | | 0 0 | 10 0 | 10.0 | 1-12 |
| | 058-19-572-010 | BTEL | Ø | Carris Strip | .8_ | 10_ | P | Pt-P | f | <u>r</u> I | | r fr | 14-16 | 17 1 | 213- |
| | | ATRL | i. | adkel: | 8 | 18 | P | 1.1. | 18 | 8_9 | -1- | 116 | 18_9 | PP | 18 2 |
| | 55-19-572-013 | ATEC | m | Opur | 0 | 1 | 19 | P | 11 | 8 18 | P | PP | PP | 19.19 | 8 2 |
| | and the second se | BTBC | | Unlavaulte: | P | P | 11 | 1 9 | P | PP | .1 | 818 | PP | 8 8 | Pa |
| | 58-19-572-014_ | | TR | Cast | 8 | 0 | 9 | 1:0 | 18 | 90 | 10 | 00 | 19 P | p p | 10 |
| | 58-19-572-015 | BTBL | - | | 0 | 0 | 8 | 0 1 | 10 | 00 | 0 | 00 | Toto | PF | 101 |
| 22. B. Sandeepto: | 19-341-002 | 18× | R | B. Sondeep_ | 1 | 1- | 1- | THE. | +1 | | ++++ | | 11 | | 140 |
| 1 | | | _ | | L | I | | 11- | | | 1 | - | | 1 | 11 |

Station and

and the second

| | .8 | | | | | | 1 | 10 | | | | 0 | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| N. I. Abut hat S. Brithman Lo S. C. Latron G. C. Dutski C. C. Dutski C. S. Scientin S. J. Scientin S. J. Scientin S. J. Scientin M. Romani Mill I. R. Richard R. Richard R. Scientin I. Romani Mill I. S. M. Alandill B. N. Mandull B. J. Janso | δ Arge - See Gard - C Sourd Arge - See Gard - C Arge - See Gard - See Gard - C Arge - See Gard - C Arge - See Gard - C Arge - See Gard - C Arge - See Gard - C Arge - See Gard - C Arge - See Gard - C Arge - See Gard - C Arge - See Gard - C Arge - See Gard - C Arge - See Gard - C Arge - C Arge - See Gard - C Arge - C Arge - See Gard - C Arge - C Arge - See Gard - C Arge - C Arge - See Gard - C Arge - C Arge - See Gard - C Arge - C Arge - See Gard - C Arge - C Arge - See Gard - C Arge - C Arge - See Gard - C Arge - C Arge - See Gard - C Arge - C Arge - See Gard - C Arge - C Arge - See Gard - C Arge - C Arge - See Gard - C Arge - C Arge - See Gard - C Arge - C Arge - See Gard - C Arge - C Arge - See Gard - C Arge - C Arge - See Gard - C Arge - C <t< th=""><th>1 032 T 1 032 T 1 032 T 1 621 J 1 6</th><th>London (1) 117 (1) 117 (1)</th><th>1 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9</th><th>1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</th><th>1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</th><th>$\begin{array}{c} \mathbf{A} \\$</th><th>P P P P P P P P P P</th><th>1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1</th><th>$\begin{array}{c} 1^{*}_{*} & 1^{*}_{*} & 1^{*}_{*} \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 1^{*}_{*} & 1^{*}_{*} & 1^{*}_{*} &$</th><th>$\begin{array}{c} \begin{array}{c} & & \\$</th><th>P P P 2 P P P 2 P P S 2 P S</th><th>2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2</th></t<> | 1 032 T 1 032 T 1 032 T 1 621 J 1 6 | London (1) 117 (1) | 1 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | $\begin{array}{c} \mathbf{A} \\ $ | P P P P P P P P P P | 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1 | $\begin{array}{c} 1^{*}_{*} & 1^{*}_{*} & 1^{*}_{*} \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 1^{*}_{*} & 0 \\ 1^{*}_{*} & 1^{*}_{*} & 1^{*}_{*} & 1^{*}_{*} & 1^{*}_{*} &$ | $\begin{array}{c} \begin{array}{c} & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ $ | P P P 2 P P P 2 P P S 2 P S | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |

TARA GOVERNMENT COLLEGE (A), SANGAREDDY

SOIL TESTING-EXAMINATION

25 MARKS-1hr

1. Write about the soil sampling and also about the steps in soil testing? 5 marks

Short Answers= 2marks each

1

2. Define labeling?

3. At what time you have to collect the soil samples?

4. Write a short note on soil texture?

5. What is the pH for acidic and basic soils?

6. State the principle of estimation of Gypsum required for alkali soil?

7. Write a short note on a wet digestion method?

8. What is the major nutrient deficiencies in soil and what are the symptoms seen on plants?

9. What is the percentage of Nitrogen in the atmosphere? How does the fixation takes place?

10. Define the soil? VI. Doms a diagram of Soil pufile

4