

SRI MAHAYOGI LAXMAMMA GOVT. DEGREE COLLEGE  
YEMMIGANUR.

(Affiliated to Rayalaseema University, Kurnool)

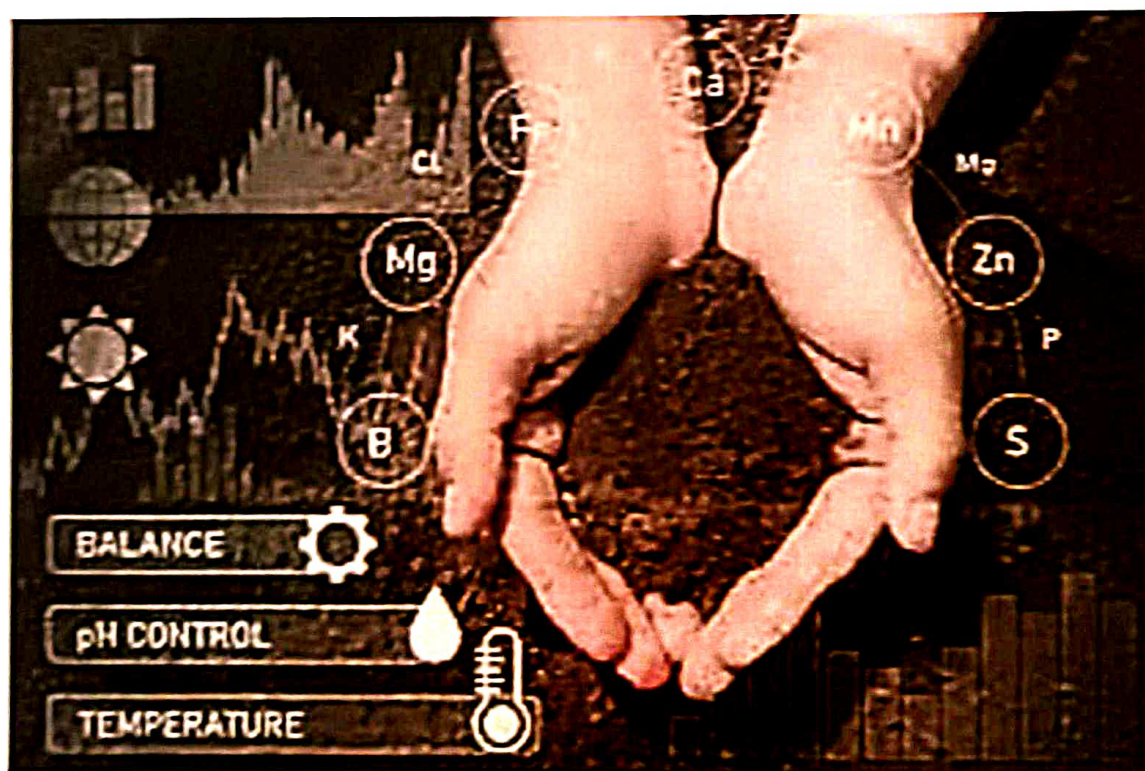
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**CERTIFICATE COURSE**

On

**SOIL TESTING**



Organized By

**DEPARTMENT OF CHEMISTRY**

**2021-2022**

Minutes of the department meeting for the conduct of certificate course in "Soil Testing"

Soil testing is a crucial step in various fields such as agriculture, environmental science, civil engineering, and geology. A certificate course in soil testing can be immensely important for several reasons like agriculture productivity, environmental conservation and natural resource management

Hence, Department of Chemistry has decided to introduce a certificate course in Soil Testing to enhance proficiency and practical knowledge in Soil Testing, with the humble intention of imparting necessary knowledge on Soil Testing and quality parameters of soil to the students. The Department of Chemistry has conducted a meeting with the members of the department in the Departmental Staffroom on 09/02/2022. The meeting is chaired by the Incharge of the Department and on the instruction by The Principal. The department has unanimously resolved to conduct certificate course in Soil Testing for the II year degree students of our college.

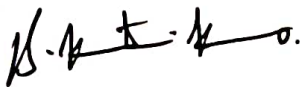
The course is designed to be for a duration of 33 days. Further it is resolved to concentrate on students with rural background and total intake of the students shall be less than 30. Circular, informing the students will be sent after the approval by the Principal and the classes of the Certificate Course shall be conducted off the time table of the college.



Sri.A.SreenuBabu

Lecturer in Chemistry

*Lecturer in Chemistry*  
S.M.L. Govt. Degree College  
YEMMIGANUR - 518360.



Sri.B.Kranthi Kumar

*Lecturer in Chemistry*  
H.C. of Department of Chemistry,  
YEMMIGANUR - 518360



Dr.K.Mahaboob Basha

**PRINCIPAL**

**SRI MAHAYOGI LAKSHMAMMA**  
**GOVT. DEGREE COLLEGE**  
**YEMMIGANUR - 518360.**  
**Kurnool (Dist.) A.P.**

Proposal for the introduction of Certificate Course in Soil Testing

Date:10/02/2022

From  
The Incharge,  
Department of Chemistry,  
Sri MahayogiLakshammaGovt. Degree College,  
Yemmiganur.

To  
The Principal,  
Sri Mahayogi Lakshamma Government Degree College.

Respected Sir,

10.2.2022  
With reference to the Departmental resolution to conduct Certificate Course in Soil Testing, I would like to put forth a proposal before your goodness to introduce a Certificate course in Chemistry for B.Sc. BZC II year students of our college for 2021-22. Due to increase in awareness of the importance of the soil profile, it is imperative for the students of Chemistry and in general every student to have awareness on parameters of soil quality. I request you Sir, to permit us to conduct Certificate Course in "Soil Testing" in the Dept. of Chemistry.

Thanking You Sir.

**Details of the Programmeare :**

- Program duration : 33 Days
- Timings of the program : 9.00 to 10.00 am
- Starting date of the program : 15/02/2022
- Course fee : -Nil-
- Number of students expected for admission : 30

*B. Kranthi Kumar*

**B.Kranthi Kumar**  
*Lecturer in Chemistry*  
**H.O. of Department of Chemistry**  
**YEMMIGANUR - 517302**

Proposal for the introduction of Certificate Course in Soil Testing

Date:10/02/2022

From  
The Incharge,  
Department of Chemistry,  
Sri MahayogiLakshammaGovt. Degree College,  
Yemmiganur.

To  
The Principal,  
Sri Mahayogi Lakshamma Government Degree College.


Respected Sir,

10.2.2022  
With reference to the Departmental resolution to conduct Certificate Course in Soil Testing, I would like to put forth a proposal before your goodness to introduce a Certificate course in Chemistry for B.Sc. BZC II year students of our college for 2021-22. Due to increase in awareness of the importance of the soil profile, it is imperative for the students of Chemistry and in general every student to have awareness on parameters of soil quality. I request you Sir, to permit us to conduct Certificate Course in "Soil Testing" in the Dept. of Chemistry.

Thanking You Sir.

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- Program duration : 33 Days
- Timings of the program : 9.00 to 10.00 am
- Starting date of the program : 15/02/2022
- Course fee : -Nil-
- Number of students expected for admission : 30



B.Kranthi Kumar


Lecturer in Chemistry  
H.O. of Department of Chemistry  
YEMMIGANUR - 515202

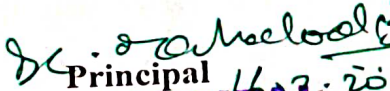
## CIRCULAR

This is to inform to the II Year students of B.Sc. BZC, that the Department of Chemistry is offering a "CERTIFICATE COURSE IN SOIL TESTING". The duration of course is 5 weeks/33 days. There is "NO Course Fee" and it is offered as value addition to the students of chemistry. The course shall be run by the Department of Chemistry before the college hours. All the interested students are required to give their names to Incharge of the Department. The Course shall enhance the knowledge in Soil Testing and shall be useful to their Career in Chemistry. Certificate will be awarded to all students who complete the course.

### Details of the Programme are:

- Program duration : 33 Days
- Timings of the program : 9.00 to 10.00 AM
- Program Duration : 16/02/2022 to 28/03/2022
- Course fee : -Nil-
- Number of students expected for admission : 30

  
Convenor  
Lecturer in Chemistry  
Department of Chemistry  
YEMMIGANUR - 518360.

  
Principal 16.2.2022  
**PRINCIPAL**  
SRI MAHAYOGI LAKSHMAI  
GOVT. DEGREE COLLEGE  
YEMMIGANUR - 518360  
Kurnool (Dist.) A.P.

- Copy to Departmental Notice Board
- Copy to College Library Notice Board
- Copy to College Office
- Departmental Copy

## BRIEF REPORT

Department of Chemistry has decided to introduce a certificate course in Soil Testing to enhance proficiency and practical knowledge in Soil profile, with the humble intention of imparting necessary knowledge on soil analysis and quality parameters of soil to the students. The Department of Chemistry has made humble beginning to impart and enrich students with basic concepts of Soil Quality and parameters of Soil Testing by introducing a Certificate course in Soil Testing for the B.Sc. BZC II year students of 2021-22. The course started on 16/02/2022 and completed on 28/03/2022. The Certificate course was conducted for a period of 33 days with 25 hours of Theory and 8 hours of Practicals from 9.00 am to 10.00 pm off the college hours. After the successful completion of the course,

- Program duration : 33 Days
- Timings of the program : 9.00 to 10.00 am
- Starting date of the program : 16/02/2022
- Course fee : -Nil-
- Number of students expected for admission : 30

There is NO Course Fee and is offered as value addition to the Students of Chemistry.

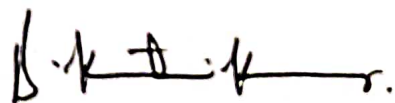
In this connection, Dr.K.MahaboobBasha,principal of the college presided over the inaugural function and expressed that it was a very useful course for everyone in daily life. He also appreciated the faculty of chemistry department for organizing the valuable certificate course. He advised the students to utilize it in a proper manner.During the above period a few faculty members of the college took part in the course actively and expresses their views and suggestions for the betterment of the programme.The faculty members involved in the programme are

1. Sri B.Kranthi Kumar, Lecturer in Chemistry,Sri MahayogiLakshamma Govt. Degree College, Yemmiganur.
2. Sri. A.SreenuBabu, Lecturer in Chemistry, Sri MahayogiLakshamma Govt. Degree College, Yemmiganur.
3. Dr.M.Suseelamma, Lecturer in Botany,Sri MahayogiLakshamma Govt. Degree College, Yemmiganur.

4. Dr.P.Sujathamma, Principal Scientist, Krishi Vigyan Kendra , Banavasi.

After completion of the course an assessment test conducted for the participants both in theory and practicals. Performance of the participants was well and good. On March 30<sup>th</sup> a valedictory function was organized by the Dept. of Chemistry and Dr.K.Mahaboob Basha, principal of the college addressed the meeting and said that it was a remarkable achievement of the department of chemistry and congratulated all the participants. Finally, the principal distributed the certificates. All the teaching and non-teaching staff attended the programme and made it a grand success.

I hereby express my utmost gratitude to Dr.K.Mahaboob Basha, Principal teaching and non-teaching staff who involved directly or indirectly and my best wishes to all the participants.



(Sri.B.Kranthi Kumar)

Lecturer in Chemistry  
S.M.L. Coordinator College  
YEMMIGANUR - 513202

**Syllabus Prescribed For  
Certificate Course in Soil Testing  
(Section-B)  
Soil Testing and Analysis**

Max. Marks : 40

- Unit – I** : Importance of Soil Testing and Analysis
- Unit – II** : Sample Collection and Processing Purpose of Soil testing and analysis, selection of field, Method of Soil Sample collection Methods of soil sample processing, precautions during soil collection & processing, Preservation labeling and Storage of soil samples, various types of tools used for collection.
- Unit – III** : **Study of Instruments:** Brief study of instruments : PH Meter, Conductivity meter, spectrometer, UV-Spectrophotometer, (Calibration, Instrumentation, applications only) use of soil testing kit and mobile soil testing van. Kjeldahl's Assembly for determination of nitrogen.
- Unit – IV** : **Study of Laboratory Setup**  
Laboratory Layout, Built up area, Laboratory requirements, working pattern, budget requirement, trained manpower, various funding schemes and agencies.
- Unit – V** : **Soil Test Report & Fertilizer Recommendation :**  
Preparation of Soil analysis and test report, Fertilizer recommendation, preparation of soil test summaries and fertility maps.

**Books Recommended (Books suggested for Reading) :**

1. Soil Sampling, Preparation and analysis, Marcell Dekker, Inc, New York.
2. Soil Sampling and methods of analysis, carter M.R. and E.G.Gregorich, 2007, 2<sup>nd</sup> Ed.,
3. Methods of soil analysis Part A Analytical Chemistry of Agronomy Inc. Kuete.

# PRACTICALS

## Soil Analysis & Testing Methods

1. Visit to Soil Testing Laboratory & Report writing.
2. Visit to Farmers Fields for Collection of Soil Samples, identification of nutrient deficiency Symptoms in Crop.
3. Preparation of Various Chemical reagents required for soil testing.
4. Processing of Soil Sampling for analysis
5. Determination of PH of soil sample using PH meter
6. Determination of Electrical Conductivity of Soil Sample using Electrical Conductivity meter.
7. Determination of Organic Carbon by wet Oxidation method.
8. Determination of available Nitrogen from Soil Sample.
9. Determination of available phosphorus from soil sample.
10. Determination of available Potassium from soil sample.
11. Determination of Calcium Carbonate from soil sample.
12. Determination of micronutrients from soil sample.
13. Determination of lime requirement of deiclic soil.
14. Determination of Gypsum requirement of Soil.
15. Preparation of soil test report, Interpretation of result and fertilizer recommendation.
16. Preparation of soil test summaries and fertility maps.
17. Preparation of Soil Health Card.
18. Use of Various soil testing kits and working of mobile soil testing van.

### Books Recommended:

1. Introduction to soil laboratory manual -J.J.Harsett stipes.
2. Introduction to soil science laboratory manual, Palmer and troch - Iowa state.

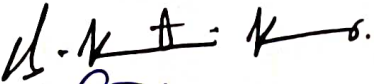

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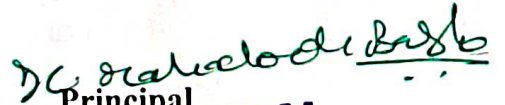
Incharge  
Dept. of Chemistry  
Sri Malayogi College  
Govt. Dept. of  
Kannur

### Time Table

Day	Timing	Name of the Lecturer
Monday	9:00 – 10:00 am	Sri.A.Sreenu Babu
Tuesday	9:00 – 10:00 am	Sri.A.Sreenu Babu
Wednesday	9:00 – 10:00 am	Sri.B.Kranthi Kumar
Thursday	9:00 – 10:00 am	Sri.A.Sreenu Babu
Friday	9:00 – 10:00 am	Sri.B.Kranthi Kumar
Saturday	9:00 – 10:00 am	Sri.B.Kranthi Kumar

#### Signatures of the Lecturers:


1. 
2. 


  
Principal  
**PRINCIPAL**  
**SRI MAHAYOGI LAKSHMAMMA**  
**GOVT. DEGREE COLLEGE**  
**YEMMIGANUR - 518360.**  
**Kurnool (Dist.) A.P.**

Willingness of the students for the certificate course in Soil Testing

A.Y. 2021-22


S.No.	Reg.No.	Name of the Student	Signature of the Student
1	20358049001	Vadla Aravind	V. Aravind
2	20358049002	Kuruva Ayyanna	K. Ayyanna
3	20358049003	Madasu Babu	M. Babu
4	20358049006	Gullamorusu Immanuel	G. Immanuel
5	20358049007	Boya Jayasree	B. Jayasree
6	20358049008	Pinjari Khadar Basha	P. Khadar Basha
7	20358049009	Bangi Krishnaveni	B. Krishnaveni
8	20358049011	Chittimitti Madhu	C. madhu
9	20358049012	Dashini Mahendra	D. Mahendra
10	20358049013	Talari Mahendra	T. mahendar
11	20358049015	Gullamorusu Manikumari	G. Manikumari
12	20358049016	Boya Nagesh	B. Nagesh
13	20358049019	Kummari Naresh	K. Naresh
14	20358049021	M.Peddaiah	M. Peddaiah
15	20358049022	E.Rajasekhar	E. Rajasekhar
16	20358049024	K.Ranganna	K. Ranganna
17	20358049028	B.Shashidar	B. Shashidar
18	20358049029	K.Sreeramulu	K. Sreeramulu
19	20358049030	K.Sujatha	K. Sujatha
20	20358049031	A.Sunitha	A. Sunitha
21	20358049032	B.Supraja	B. Supraja
22	20358049033	S.Suresh Babu	S. Suresh Babu
23	20358049034	K.Swarupa	K. Swarupa
24	20358049035	B.Umesh	B. Umesh
25	20358049038	S.Vinod Kumar	S. Vinod Kumar

  
Coordinator  
Department of Chemistry  
S.M.L. Govt. Degree College  
YEMMIGANUR - 517400.


  
Principal  
PRINCIPAL  
S.M.L. Govt. Degree College  
YEMMIGANUR Kurnool (Dist.)

Admission List

S.No.	Reg.No.	Name of the Student
1	20358049001	Vadla Aravind
2	20358049002	Kuruva Ayyanna
3	20358049003	Madasu Babu
4	20358049006	Gullamorusu Immanuel
5	20358049007	Boya Jayasree
6	20358049008	Pinjari KhadarBasha
7	20358049009	Bangi Krishnaveni
8	20358049011	Chittimitti Madhu
9	20358049012	Dashini Mahendra
10	20358049013	Talari Mahendra
11	20358049015	Gullamorusu Manikumari
12	20358049016	Boya Nagesh
13	20358049019	Kummari Naresh
14	20358049021	M.Peddaiah
15	20358049022	E.Rajasekhar
16	20358049024	K.Ranganna
17	20358049028	B.Shashidar
18	20358049029	K.Sreeramulu
19	20358049030	K.Sujatha
20	20358049031	A.Sunitha
21	20358049032	B.Supraja
22	20358049033	S.SureshBabu
23	20358049034	K.Swarupa
24	20358049035	B.Umesh
25	20358049038	S.Vinod Kumar

  
Convenor

Department of Chemistry  
B.M.L. Govt. Degree College  
YEIMMIGANUR - 516360.

  
Principal

**PRINCIPAL**  
**SRI MAHAYOGI LAKSHMAMMA**  
**GOVT. DEGREE COLLEGE**  
**YEIMMIGANUR - 516360.**  
Kurnool (Dist.) A.P.

Soil Testing  
**Pupils Attendance Register**  
 II BZC

A.Y. - 2021-22

పిల్లల హాజరుపట్టి

Sl. No.	Name	Date											
		16/2	17/2	18/2	19/2	20/2	21/2	22/2	23/2	24/2	25/2	26/2	27/2
1.	V. Aravind.	X	a	X	a	X	X	a	X	X	X	X	X
2.	K. Ayyanna	X	X	X	X	X	X	X	X	X	X	X	X
3.	M. Babu	X	X	X	X	X	X	X	X	X	X	X	X
4.	G. Immanuel.	X	X	X	X	X	X	X	X	X	X	X	X
5.	B. Jaya Sree	X	X	X	X	X	X	X	X	X	X	X	X
6.	P. Khadar Babu.	X	X	X	X	X	X	X	X	X	X	X	X
7.	B. Krishna Vari	X	X	X	X	X	X	X	X	X	X	X	X
8.	C. Madhu	X	X	X	X	X	X	X	X	X	X	X	X
9.	D. Mahendra.	X	X	X	X	X	X	X	X	X	X	X	X
10.	T. Mahendra.	X	X	X	X	X	X	X	X	X	X	X	X
11.	G. Manikaveri	X	X	X	X	X	X	X	X	X	X	X	X
12.	B. Nagesh.	X	X	X	X	X	X	X	X	X	X	X	X
13.	K. Nagesh	X	X	X	X	X	X	X	X	X	X	X	X
14.	M. Peddaiyal	X	X	X	X	X	X	X	X	X	X	X	X
15.	E. Rajakshov.	X	X	X	X	X	X	X	X	X	X	X	X
16.	K. Ranganna	X	X	X	X	X	X	X	X	X	X	X	X
17.	B. Shashidhar	X	X	X	X	X	X	X	X	X	X	X	X
18.	K. Sree Ramulu	X	X	X	X	X	X	X	X	X	X	X	X
19.	K. Sujatha	X	X	X	X	X	X	X	X	X	X	X	X
20.	A. Sunitha	X	X	X	X	X	X	X	X	X	X	X	X
21.	B. Supriya	X	X	X	X	X	X	X	X	X	X	X	X
22.	S. Swetha Babu.	X	X	X	X	X	X	X	X	X	X	X	X
23.	K. Swaroopa	X	X	X	X	X	X	X	X	X	X	X	X
24.	B. Umesh	X	X	X	X	X	X	X	X	X	X	X	X
25.	S. Vinod Kumar.	X	X	X	X	X	X	X	X	X	X	X	X

Sl. No.	Name	Date											
		4/3	5/3	7/3	8/3	9/3	10/3	11/3	12/3	13/3	14/3	15/3	16/3
1.	V. Aravind.	X	X	X	X	X	X	X	X	X	X	X	X
2.	K. Ayyanna	X	X	X	X	X	X	X	X	X	X	X	X
3.	M. Babu	X	X	X	X	X	X	X	X	X	X	X	X
4.	G. Immanuel.	X	X	X	X	X	X	X	X	X	X	X	X
5.	B. Jaya Sree	X	X	X	X	X	X	X	X	X	X	X	X
6.	P. Khadar Babu.	X	X	X	X	X	X	X	X	X	X	X	X
7.	B. Krishna Vari	X	X	X	X	X	X	X	X	X	X	X	X
8.	C. Madhu	X	X	X	X	X	X	X	X	X	X	X	X
9.	D. Mahendra.	X	X	X	X	X	X	X	X	X	X	X	X
10.	T. Mahendra.	X	X	X	X	X	X	X	X	X	X	X	X
11.	G. Manikaveri	X	X	X	X	X	X	X	X	X	X	X	X
12.	B. Nagesh.	X	X	X	X	X	X	X	X	X	X	X	X
13.	K. Nagesh	X	X	X	X	X	X	X	X	X	X	X	X
14.	M. Peddaiyal	X	X	X	X	X	X	X	X	X	X	X	X
15.	E. Rajakshov.	X	X	X	X	X	X	X	X	X	X	X	X
16.	K. Ranganna	X	X	X	X	X	X	X	X	X	X	X	X
17.	B. Shashidhar	X	X	X	X	X	X	X	X	X	X	X	X
18.	K. Sree Ramulu	X	X	X	X	X	X	X	X	X	X	X	X
19.	K. Sujatha	X	X	X	X	X	X	X	X	X	X	X	X
20.	A. Sunitha	X	X	X	X	X	X	X	X	X	X	X	X
21.	B. Supriya	X	X	X	X	X	X	X	X	X	X	X	X
22.	S. Swetha Babu.	X	X	X	X	X	X	X	X	X	X	X	X
23.	K. Swaroopa	X	X	X	X	X	X	X	X	X	X	X	X
24.	B. Umesh	X	X	X	X	X	X	X	X	X	X	X	X
25.	S. Vinod Kumar.	X	X	X	X	X	X	X	X	X	X	X	X

*S. Subalade Reddy*  
**PRINCIPAL**  
 L. Govt. Degree College  
 MMIGANUR, Kurnool (Dt.)

33  
 Incharge  
 Dept. of C  
 MMIGANUR  
 Govt. Degree  
 Kurnool

**SRI MAHAYOGI LAKSHMAMMA GOVT. DEGREE COLLEGE,  
YEMMIGANUR**

**Department of Chemistry**

**Soil Testing – Practice Questions**

1. Which of the following are variables controlling soil development? (select one or more)
  - a. composition of parent
  - b. climate
  - c. topography
  - d. biological activity
  - e. time
  
2. If the parental material is rock characteristic of a given region, then the resulting soil is referred to as
  - a. transported
  - b. elevated
  - c. superposed
  - d. residual
  - e. thick
  
3. If the parental material was brought into a given region by wind, glaciers, or water, then the resulting soil is referred to as
  - a. transported
  - b. thin
  - c. superposed
  - d. residual
  - e. thick
  
4. What does the term topography refer to?
  
5. Soils that develop on steep slopes are subjected to greater erosional stresses than soils developed on gentler slopes. True or false
  
6. Soils developed in flat lying regions are typically \_\_\_\_\_ than those developed in sloping regions.
  
7. Two important variables of climate are \_\_\_\_\_ and \_\_\_\_\_.
  
8. In the conterminous United States average annual temperature generally increases from
  - a. north to south
  - b. south to north
  - c. west to east
  - d. east to west
  - e. none of the above

9. Which of the following areas within the conterminous United States has the largest average annual precipitation
- SE
  - SW
  - NE
  - mid-continent
  - south
10. In general, calcite and halite (salt) will not be found in soils located in the \_\_\_\_\_ United States because of the relatively \_\_\_\_\_ annual precipitation.
11. The climatic conditions that are most conducive for the formation of calcite and/or halite in a soil are
- high precipitation – low temperature
  - high precipitation – high temperature
  - high precipitation – moderate temperature
  - low precipitation – high temperature
  - none of the above
12. In the continental United States where would you most expect to find calcite and/or salts in a soil? Why?
13. Increasing temperature increases the rate of \_\_\_\_\_ reactions in a soil.
14. Based on the statements in question #13, would you expect soils developed in the tropics to be more highly weathered and developed than those developed in say Idaho? Why?
15. What kinds of elemental nutrients do plants and animals extract from the soil and atmosphere?
16. Provide below a succinct statement of the salient aspects of the nutrient cycle.
17. Layers that appear within a soil are referred to as \_\_\_\_\_.
18. A vertical section exposing a soil represents its \_\_\_\_\_.
19. Removal of soil material in suspension or solution from one master horizon to another is referred to as \_\_\_\_\_.



Incharge  
Dept. of Chemistry  
Mahayogi Lakshamma  
Govt. Degree College  
Sanganur - 518 360,

**SRI MAHAYOGI LAKSHMAMMA GOVT. DEGREE COLLGE,**  
**YEMMIGANUR**  
**DEPARTMENT OF CHEMISTRY**  
**Certificate Course on Soil Testing**

**Feed Back from Students**

1. Name of the Student : Vadla Aravind  
2. Class & Group : II B.Z.C.  
3. Regd. No. : 20358049001  
4. Opinion : A. Excellent  B. Good  C. Satisfactory   
5. Signature of the Student: *V. Aravid*

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1. Name of the Student : Kuruva Ayyanna  
2. Class & Group : II B.Z.C.  
3. Regd. No. 20358049002  
4. Opinion : A. Excellent  B. Good  C. Satisfactory   
5. Signature of the Student: *K. Ayyanna*

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1. Name of the Student : Madasu Babu  
2. Class & Group : II B.Z.C.  
3. Regd. No. 20358049003  
4. Opinion : A. Excellent  B. Good  C. Satisfactory   
5. Signature of the Student: *M. Babu*

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1. Name of the Student : G.Immanuel  
2. Class & Group : II B.Z.C.  
3. Regd. No. 20358049006  
4. Opinion : A. Excellent  B. Good  C. Satisfactory   
5. Signature of the Student: *G. Immanuel*

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1. Name of the Student : Boya Jayasri  
2. Class & Group : III B.Z.C.  
3. Regd. No. : 20358049007  
4. Opinion : A. Excellent ✓ B. Good C. Satisfactory  
5. Signature of the Student: B. Jayasree
- 

1. Name of the Student : Pinjari Khadar Basha  
2. Class & Group : II B.Z.C.  
3. Regd. No. 20358049008  
4. Opinion : A. Excellent ✓ B. Good C. Satisfactory  
5. Signature of the Student: P. Khadar Basha
- 

1. Name of the Student : Bangi Krishnaveni  
2. Class & Group : II B.Z.C.  
3. Regd. No. 20358049009  
4. Opinion : A. Excellent ✓ B. Good C. Satisfactory  
5. Signature of the Student: B. Krishnaveni
- 

1. Name of the Student : Chittimitti Madhu  
2. Class & Group : II B.Z.C.  
3. Regd. No. 20358049011  
4. Opinion : A. Excellent ✓ B. Good C. Satisfactory  
5. Signature of the Student: C. madhu
- 

1. Name of the Student : Dashini Mahendra  
2. Class & Group : II B.Z.C.  
3. Regd. No. 20358049012 ✓  
4. Opinion : A. Excellent B. Good ✓ C. Satisfactory  
5. Signature of the Student: D. mahendra
-

1. Name of the Student : Boya Jayasri  
2. Class & Group : III B.Z.C.  
3. Regd. No. : 20358049007  
4. Opinion : A. Excellent ✓ B. Good C. Satisfactory  
5. Signature of the Student: B. Jayasree
- 

1. Name of the Student : Pinjari Khadar Basha  
2. Class & Group : II B.Z.C.  
3. Regd. No. 20358049008  
4. Opinion : A. Excellent B. Good ✓ C. Satisfactory  
5. Signature of the Student: P. Khadar Basha
- 

1. Name of the Student : Bangi Krishnaveni  
2. Class & Group : II B.Z.C.  
3. Regd. No. 20358049009  
4. Opinion : A. Excellent B. Good ✓ C. Satisfactory  
5. Signature of the Student: B. Krishnaveni
- 

1. Name of the Student : Chittimitti Madhu  
2. Class & Group : II B.Z.C.  
3. Regd. No. 20358049011  
4. Opinion : A. Excellent B. Good ✓ C. Satisfactory  
5. Signature of the Student: C. Madhu
- 

1. Name of the Student : Dashini Mahendra  
2. Class & Group : II B.Z.C.  
3. Regd. No. 20358049012  
4. Opinion : A. Excellent B. Good ✓ C. Satisfactory  
5. Signature of the Student: D. Mahendra
-

1. Name of the Student : Talari Mahendra  
2. Class & Group : II B.Z.C.  
3. Regd. No. : 20358049013  
4. Opinion : A. Excellent B. Good C. Satisfactory  
5. Signature of the Student: T. Mahendra

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1. Name of the Student : Gullamorusu Manikumari  
2. Class & Group : II B.Z.C.  
3. Regd. No. 20358049015  
4. Opinion : A. Excellent B. Good C. Satisfactory  
5. Signature of the Student: G. Mani Kumari

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1. Name of the Student : Boya Nagesh  
2. Class & Group : II B.Z.C.  
3. Regd. No. 20358049016  
4. Opinion : A. Excellent B. Good C. Satisfactory  
5. Signature of the Student: B. Nagesh

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1. Name of the Student : Kummari Naresh  
2. Class & Group : II B.Z.C.  
3. Regd. No. 20358049019  
4. Opinion : A. Excellent B. Good C. Satisfactory  
5. Signature of the Student: K. Naresh

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1. Name of the Student : M. Peddaiah  
2. Class & Group : II B.Z.C.  
3. Regd. No. 20358049021  
4. Opinion : A. Excellent B. Good C. Satisfactory  
5. Signature of the Student: M. Peddaiah

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1. Name of the Student : E.Rajasekhar  
2. Class & Group : II B.Z.C.  
3. Regd. No. 20358049022  
4. Opinion : A. Excellent B. Good C. Satisfactory  
5. Signature of the Student: E. Raja Sekhar

1. Name of the Student : K.Ranganna  
2. Class & Group : II B.Z.C.  
3. Regd. No. 20358049024  
4. Opinion : A. Excellent B. Good C. Satisfactory  
5. Signature of the Student: K. Ranganna

1. Name of the Student : B.Shashidar  
2. Class & Group : II B.Z.C.  
3. Regd. No. 20358049028  
4. Opinion : A. Excellent B. Good C. Satisfactory  
5. Signature of the Student: B. Shashidar

1. Name of the Student : K.Sreeramulu  
2. Class & Group : II B.Z.C.  
3. Regd. No. 20358049029  
4. Opinion : A. Excellent B. Good C. Satisfactory  
5. Signature of the Student: K. Sreeramulu

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1. Name of the Student : K.Sujatha  
2. Class & Group : II B.Z.C.  
3. Regd. No. 20358049030  
4. Opinion : A. Excellent B. Good C. Satisfactory  
5. Signature of the Student: *K. Sujatha*

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1. Name of the Student : A.Sunitha  
2. Class & Group : II B.Z.C.  
3. Regd. No. 20358049031  
4. Opinion : A. Excellent B. Good C. Satisfactory  
5. Signature of the Student: *A. Sunitha*

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1. Name of the Student : B.Supraja  
2. Class & Group : II B.Z.C.  
3. Regd. No. 20358049032  
4. Opinion : A. Excellent B. Good C. Satisfactory  
5. Signature of the Student: *B. Supraja*

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1. Name of the Student : S.Suresh Babu  
2. Class & Group : II B.Z.C.  
3. Regd. No. 20358049033  
4. Opinion : A. Excellent B. Good C. Satisfactory  
5. Signature of the Student: *S. Suresh Babu*

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1. Name of the Student : K.Swarupa
2. Class & Group : II B.Z.C.
3. Regd. No. 20358049034
4. Opinion : A. Excellent B. Good C. Satisfactory

5. Signature of the Student: *K. Swarupa*

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1. Name of the Student : B.Umesh
2. Class & Group : II B.Z.C.
3. Regd. No. 20358049035
4. Opinion : A. Excellent B. Good C. Satisfactory

5. Signature of the Student: *B. Umesh*

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1. Name of the Student : S.Vinod Kumar
2. Class & Group : II B.Z.C.
3. Regd. No. 20358049038
4. Opinion : A. Excellent B. Good C. Satisfactory

5. Signature of the Student: *S. Vinod Kumar*

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## Marks Award List

S.No.	Regd.No.	Name of the Student	Max. Marks 50 Marks	Grade
1	20358049001	Vadla Aravind	40	B
2	20358049002	Kuruva Ayyanna	35	C
3	20358049003	Madasu Babu	40	B
4	20358049006	Gullamorusu Immanuel	42	B
5	20358049007	Boya Jayasree	50	A
6	20358049008	Pinjari Khadar Basha	45	A
7	20358049009	Bangi Krishnaveni	40	B
8	20358049011	Chittimitti Madhu	35	C
9	20358049012	Dashini Mahendra	42	B
10	20358049013	Talari Mahendra	35	C
11	20358049015	Gullamorusu Manikumari	44	B
12	20358049016	Boya Nagesh	38	C
13	20358049019	Kummari Naresh	50	A
14	20358049021	M.Peddaiah	48	A
15	20358049022	E.Rajasekhar	47	A
16	20358049024	K.Ranganna	48	A
17	20358049028	B.Shashidar	48	A
18	20358049029	K.Sreeramulu	47	A
19	20358049030	K.Sujatha	49	A
20	20358049031	A.Sunitha	49	A
21	20358049032	B.Supraja	47	A
22	20358049033	S.Suresh Babu	35	C
23	20358049034	K.Swarupa	48	A
24	20358049035	B.Umesh	48	A
25	20358049038	S.Vinod Kumar	35	C

*B. N. T. K. S.*  
Coordinator

*Lecturer in Chemistry*  
Department of Chemistry  
YEMMIGANUR - 513360.

*K. Dehalade Bell*  
Principal

**PRINCIPAL**  
SRI MAHAYOGI LAKSHMANNA  
GOVT. DEGREE COLLEGE  
YEMMIGANUR - 513360.  
Kurnool (Dist.) A.P.

SRI MAHAYOGI LAKSHMAMMA GOVT.DEGREE COLLEGE  
YEMMIGANUR

DEPARTMENT OF CHEMISTRY

CERTIFICATE COURSE IN "SOIL TESTING"

This is to certify that A. Sunitha  
studying II BSc is successfully completed certificate course on SOIL TESTING  
organized by the Department of Chemistry, Sri Mahayogi Lakshamma Govt. Degree College,  
Yemmiganur, held from 16/02/2022 to 28/03/2022

Sri.B.Kranthi Kumar  
Convenor



Dr.K.Mahaboob Basha  
Principal

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Yemmiganur, held from 16/02/2022 to 28/03/2022

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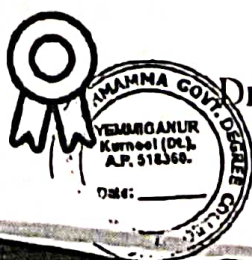
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This is to certify that F. Rajasekhar  
studying II BZC is successfully completed certificate course on SOIL TESTING  
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This is to certify that G. Mani Kumari  
studying II BZC is successfully completed certificate course on SOIL TESTING  
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This is to certify that M. Peddolaiah  
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This is to certify that D. Mahendra  
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This is to certify that K. Narresh  
studying II B.Y.C is successfully completed certificate course on SOIL TESTING  
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Sri.B.Kranthi Kumar  
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Dr.K.Mahaboob Basha  
Dr.K.Mahaboob Basha  
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studying II B.Y.C is successfully completed certificate course on SOIL TESTING  
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Convenor



Dr.K.Mahaboob Basha  
Dr.K.Mahaboob Basha  
Principal

SRI MAHABOOB U. MAHMOODULLA GOVT. DEGREE COLLEGE  
TENTHICANUR

DEPARTMENT OF CHEMISTRY

CERTIFICATE COURSE IN "SOIL TESTING"

This is to certify that K. Sujatha  
having 78% is successfully completed certificate course in SOIL TESTING  
organized by the Department of Chemistry, Sri Mahabooj U. Mahmooodulla Govt. Degree College,  
Tenthicanur, held from 16/02/2022 to 22/02/2022

S. B. K. K.  
Sri B. Kranthi Kumar  
Convener



Dr. K. Mahabooj Basha  
Dr. K. Mahabooj Basha  
Principal

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YEMMIGANUR

DEPARTMENT OF CHEMISTRY

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This is to certify that B. Jayasree  
studying II B.T.C is successfully completed certificate course on SOIL TESTING  
organized by the Department of Chemistry, Sri Mahayogi Lakshamma Govt. Degree College,  
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Sri.B.Kranthi Kumar  
Convenor



Dr.K.Mahaboob Basha  
Principal



Lecture on Soil Testing by Dr.P.Sujathamma,



