

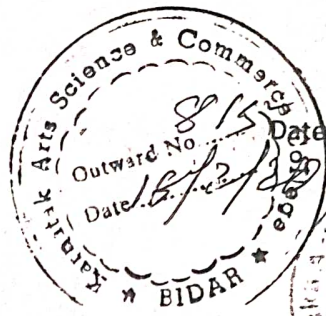
KRE Society's
Karnatak Arts, Science and Commerce College, Bidar
Department of Chemistry .

Value added course on Soil and Water Testing

Course Co-ordinator

Sri. A R Mamane
Head and Associate Professor
Department of Chemistry

Karnatak Arts Science and Commerce Society, Bidar



Date: 17/02/2020

To,
The Principal,
Karnatak Arts Science and Commerce College, Bidar

Sub: Request to grant permission to start certificate course on "Soil and Water Analysis" for the year 2019-20

Respected Mam,

As per the directions of IQAC and NAAC guidelines, Department of Chemistry would like to start certificate course in "Soil and Water Analysis" from 20 February 2020 for advance learners with Intake capacity 25. In this connection, please permit us to collect the fees of Rs. 200 per head to meet the necessary expenses. This fees will be collected through challan and will be deposited in DCC Back A/C no. 05.

I hope you will permit and do the needful.

D. S. TO put up Kalpane

Sincerely

S. A. R. Mamane
Department of Chemistry
Head Department of Chemistry
Karnatak Arts Science & Commerce Society
BIDAR-585401

OS) May be forwarded to humble president/ Secretary KRS Society Bidar for permission to start the certificate course on "Soil and Water Analysis" from 20th February 2020. for Advance learners with Intake capacity 25 and permission to collect the fees of Rs. 200/- Each student to meet the necessary expenditure and permission to deposit the collected fees in A/c no. 05 of DCC Back

VICE-PRINCIPAL forwarded to the Hon'ble
President/Secretary seeking permission to
start a certificate course in "Soil and
Water Analysis" in Chemistry by collecting
Rs. 200/- per student. The collected amount
will be deposited into Dec Bank account No.
5 (Principal account).

[Signature]
18/2/2023

Karasa

Ans) As per directions and NMAC guidelines Department of
Chemistry desires to start "Certificate course in
"Soil and Water Analysis" ~~cost~~ by collecting Rs 200/- per
student.
Kindly permission be accorded to start the course
by collecting Rs 200/- per student

[Signature]

permitted.

B. R. Mune

A. R. Mune to attend

Karasa



ಕರ್ನಾಟಕ ಕಲಾ, ವಿಜ್ಞಾನ ಹಾಗೂ ವಾಣಿಜ್ಯ ಪರಿಷತ್ತಿನ ಅಧೀನದಲ್ಲಿ,
KARNATAK ARTS, SCIENCE & COMMERCE COLLEGE, BIDAR



Estd 1970
(Affiliated to Gulbarga University, Kalaburagi)

College with Potential for Excellence Status Awarded by UGC New Delhi

ISO 9001 : 2015



Golden Jubilee Celebration - 1970-2020

Date : 22-07-2019

To.

Dr.P.Vithal Reddy
Associate Professor
H.O.D of Chemistry
B.V.B College
Bidar.

Sub: Request to serve on Board of Studies for Add on Course.

Dear Sir,

I am very happy to inform you that, our institution under Department of Chemistry would like to start an add on course titled " Soil & Water Testing ". In this context I am requesting you to serve as Member of Institutional Board of Studies for the above mentioned Course.

The meeting of Institutional BOS for an add on course on "Soil & Water Testing " is convened on 23-07-2019 at IQAC Room, in Karnatak Arts, Science & commerce college. Bidar at 11:30 am.

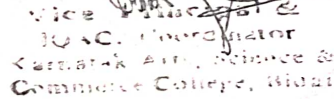
I hope you will accept this invitation and provide your expertise in development of curriculum for the above mentioned course.

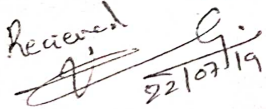

Head

Department of Chemistry
Karnatak Arts & Commerce College
Bidar - 585401


Principal

Karnatak Arts Science &
Commerce College, BIDAR


Vice-Chancellor
IQAC, Bidar
Karnatak Arts, Science &
Commerce College, Bidar

Received

22/07/19

E-mail : principalkascc@gmail.com
Fax : 08482-226503

Hyderabad Road, Karnataka State - 585401.
Fax : 08482-226503

Cell : 9343834635
Visit us @ www.kascc.in.net



ಕರ್ನಾಟಕ ಕಲಾ, ವಿಜ್ಞಾನ ಹಾಗೂ ವಾಣಿಜ್ಯ ಮಹಾವಿದ್ಯಾಲಯ, ಬೀದರ
KARNATAK ARTS, SCIENCE & COMMERCE COLLEGE, BIDAR

Estd 1970
(Affiliated to Gulbarga University, Kalaburagi)

College with Potential for Excellence Status Awarded by UGC New Delhi

ISO 9001 : 2015



Golden Jubilee Celebration - 1970-2020

Date → 23-07-19

Minutes of Meeting of Institutional Board of Studies for

Add-on Course on

Soil and Water Testing

Held on 23rd July, 2019

The institutional BOS meeting of the Department of Chemistry for the add-on course on "Soil and Water Testing" held on 23/07/2019 at IQAC Room at 11:30 am.

Institutional BOS

Sl.No	Name	Institute	Designation
1.	Sri. Ashok Mamane	Head, Department of Chemistry, Karnatak Arts Science and Commerce College, Bidar.	Chairman
2.	Sri. Vinod Kumar Mulge	Associate Professor, Department of Chemistry	Member Internal Expert
3.	Dr.S. B Mashetty	Associate Professor, Department of Chemistry	Member Internal Expert
4.	Dr. P.Yithal Reddy	Associate Professor HOD of Chemistry, B.V.B College, Bidar	External Expert

In the beginning of the meeting the Chairman of the Institutional BOS welcomed all the members and briefed them about the progress of the Department of Chemistry. The members expressed their highly appreciation and satisfaction about the courses and activities of the Department.

After the Institutional BOS discussed and resolved the following items

- **Item 1. Starting of the add - on course on Soil and Water Testing.**
The BOS discussed the item and resolved to start the add -on course from August,2019.
- **Item 2. Approval of the Syllabus for add-on course.**
The BOS discussed and approved the syllabus for the add-on course on Soil and Water Testing.

E-mail : principalkascc@gmail.com
Fax : 08482-226503

Hyderabad Road, Karnataka State - 585401.
Fax : 08482-226503

Cell : 9343834635
Visit us @ www.kascc.in.net



Save Environment. Save Earth





ಕರ್ನಾಟಕ ಕಲಾ, ವಿಜ್ಞಾನ ಹಾಗೂ ವಾಣಿಜ್ಯ ಪುನಾವಿಧ್ಯಾಲಯ, ಬೀದರ

KARNATAK ARTS, SCIENCE & COMMERCE COLLEGE, BIDAR

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- **Item 3. Criteria for admission, regulation and policies to run the course and exam pattern.**
The BOS discussed and approved the criteria for admission and resolved that the student should have completed successfully 10+2 with science faculty, should be currently in B.Sc Course with Chemistry as a subject in Karnatak college, Bidar. In addition to this BOS also finalized the rules and regulations to smooth conduct of course and pattenri.

Meeting of BOS is concluded with vote of thanks by Sri Ashok Mamane, Head Department of Chemistry.

Members present

1. Sri. Ashok Mamane

[Signature]
HOD
Department of Chemistry
Karnatak Arts Sc. & Comm. College
BIDAR-585401

2. Sri. Vinod Kumar Mulge

3. Dr. S. B Mashetty

4. Dr. P. Vithal Reddy

[Signature]
HEAD
Dept of CHEMISTRY
B.V.B Degree College
BIDAR-585402 (K.B.)

[Signature]
IOAC Co-ordinator

[Signature]
VICE-PRINCIPAL
IOAC Co-ordinator
Karnatak Arts Science & Commerce College, Bidar

[Signature]
Principal
PRINCIPAL
Karnatak Arts Science & Commerce College, BIDAR

E-mail : principalkascc@gmail.com
Fax : 08482-226503

Hyderabad Road, Karnataka State - 585401.
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Cell : 9343834635
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Save Environment Save Earth



KRE Society's
Karnatak Arts, Science and Commerce College, Bidar
Department of Chemistry

Value added course on Soil and Water Testing

Preamble: Soil and water are one of the most important natural resources for human life. Testing and analyzing soil and water and obtaining some important information about its properties can be used to determine the quality of soil and water. This kind of scientific inquiry tend to the understand the status of soil and water resources which are important for human and agriculture both. Soil analysis is considered as significant tool to understand the nutrient needs of the plants, where as water analysis is important because it identifies contaminants and prevents water-borne diseases.

Bidar district consists of large agriculturist population and hence this course aimed to equip the students with tools and techniques and water and soil quality analysis by means of basic principles and procedures of chemistry, hence they can satisfy the local needs and social problems of farmers.

Learning Outcomes

1. To develop basic understanding regarding soil testing in the students.
2. To introduce them with macro and micro nutrients for soil.
3. To enhance their skills about water analysis.

Instructional Design:-

This course is of 30 hours duration which includes theory classes, field Visit, Assignment and Field Project.

Course Structure and Examination Scheme:-

Total contact hours:

Theory Classes: 10 Hours

Practical Lab Work: 20 Hours

30 Hours

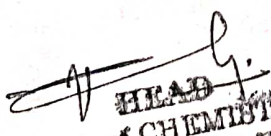
Internal Marks: 40 Theory: 20 Practical: 20




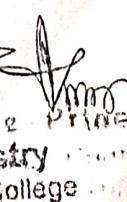
External Marks: 60

Total Marks : 100

Eligibility: Students enrolled in B Sc program of this college

No. of Seats: 25


HEAD
Dept of CHEMISTRY
B.V.B Degree College
BIDAR-585408 (K.B.)





NOD Vice Principal & PRINCIPAL
Department of Chemistry
Karnatak Arts Sc. & Commr College
BIDAR-585401

KRE Society's
Karnatak Arts, Science and Commerce College, Bidar
Department of Chemistry

Value added course on Soil and Water Testing

Theory:

Unit I- Introduction to Soil analysis, Types of soil, Soil pollutants, role of soil testing for environment, Uses of soil analysis.

Unit II- Introduction to Water analysis, Types of Water, Water pollutants, role of water testing for environment, Uses of water analysis.

Practicals:

Part I – Soil Analysis

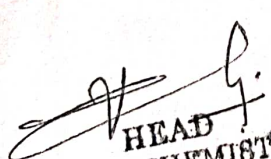
- 1) To determine PH of given soil sample.
- 2) To determine nutrient content (NPK) of soil.
- 3) To determine salinity of given soil sample.
- 4) To determine micronutrient content of soil sample.

Part II – Water Analysis


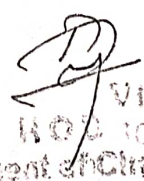
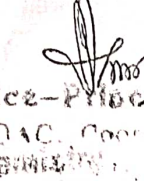
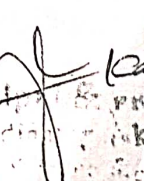
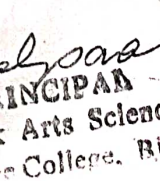
- 1) To determine hardness of water.
- 2) To determine PH of given water sample.
- 3) To determine alkalinity of water.
- 4) To determine TDS of given sample of water.

References:

1. Manual On Soil, Plant And Water Analysis – 1 Jan 2007, by Dhyan Singh (Author), A1 Publisher
2. Manual for Soil and Water Analysis, P Buurman et al. Backhuys Publishers Leiden, 1996


HEAD
Dept of CHEMISTRY
B.V.B Degree College
BIDAR-585403 (K.B.)



    
Vice-Principal
NO. 10 AC, Co-ordinator
Department of Chemistry
Karnatak Arts Science
Commerce College, Bidar



ESTD. 1942

Karnatak Arts, Science & Commerce College, Bidar

ESTD. 1970
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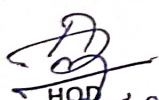


Department of Chemistry

Date: 03 - 01 - 2020

NOTICE

All the students are hereby informed that, the Department of Chemistry is starting the add-on course on "Soil and water Testing" from the 08-01-2020 to 20 - 02 -2020, interested students can enrol their names on are before 07-01-2020, in the Department of Chemistry.


HOD
Head of the
Chemistry Department
Karnatak Arts, Sc. & Comm. College
B I D A R - 585 401

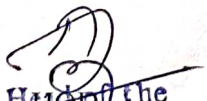

Principal
Vice-Principal &
IQAC. Coordinator
Karnatak Arts, Science &
Commerce College, Bidar


K.R.E.Society's
Karnatak Arts, Science & Commerce College, Bidar.

Department of Chemistry

List of students admitted to "Add on Course" on soil & water testing.

Sl.No	Name of the student	Semester
1.	Sujata.S	B.Sc V Sem
2.	Rakshita A	B.Sc V Sem
3.	Shweta R	B.Sc V Sem
4.	Shruti B	B.Sc V Sem
5.	Patil Bhavani	B.Sc V Sem
6.	Soubhagya S	B.Sc V Sem
7.	Bhagyashree	B.Sc V Sem
8.	Rohini M Sonar	B.Sc V Sem
9.	Pooja V	B.Sc V Sem
10.	Rohini R Sutar	B.Sc V Sem
11.	Madhurani S	B.Sc V Sem
12.	Vaishnavi S	B.Sc V Sem
13.	Shalini Sanjay	B.Sc V Sem
14.	Vaishali Patil	B.Sc V Sem
15.	Moona Arfath	B.Sc V Sem
16.	Shivkumar A	B.Sc V Sem
17.	Mana Vijaykumar	B.Sc V Sem
18.	Sarvesh M	B.Sc V Sem
19.	Ambika Baliram	B.Sc V Sem
20.	Manikeshwari B	B.Sc V Sem
21.	Deepika J	B.Sc V Sem
22.	Shivkumar R	B.Sc V Sem
23.	Amargonda C	B.Sc V Sem
24.	Nandakumar M	B.Sc V Sem
25.	Monika C	B.Sc V Sem


Head of the
Chemistry Department
Karnatak Arts, Sc. & Comm. College
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Principal

Vice-Principal &
IQAC. Coordinator
Karnatak Arts, Science &
Commerce College, B.



KRE Society's

Karnatak Arts, Science and Commerce College, Bidar



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ADMISSION FORM

Certificate/Value added/Skill Development/Diploma/Advance Diploma Courses

&

IAS/IPS/NET/SET Coaching Classes

Name of the Department Chemistry Year III

Name of the Student Rohini Rajkumar Butar

Father's/Guardian's Name Rajkumar

Date of Birth
Date:

1	0
---	---

 Month:

0	1
---	---

 Year:

1	9	9	8
---	---	---	---



Address for Correspondence :

Karnalnagar
Tq - Karnalnagar Dist - Bidar

Semester/Class : BSc V sem

Register No : 1863104

Percentage of previous semester : 64%

Contact No : 8050011034 / 9148501722

E-Mail ID : rrsutar37@gmail.com

Course to be Joined: _____

Rohini
Signature of the Student

[Signature]
HOD/Coordinator
Chemistry Department
Karnatak Arts, Sc. & Comm. College
B I D A R - 585 401

Kalyana
PRINCIPAL
Karnatak Arts Science &
Commerce College, BIDAR



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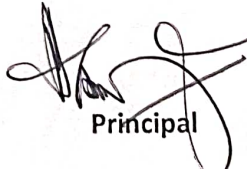
Department of Chemistry

Date: 07 - 01 - 2020

NOTICE

All the students of B.Sc V Sem are hereby informed that, the classes of Add - on course on "Soil and water testing" will commence from 08 - 01 - 2020 and are directed to attend the classes as per the time table.


HOD of the
Chemistry Department
Karnatak Arts, Sc. & Comm. College,
B I D A R - 585 401


Principal


**Vice-Principal &
IQAC. Coordinator
Karnatak Arts, Science &
Commerce College, Bidar**

K.R.E. Society's
Karnatak Arts, Science & Commerce College, Bidar.
Department of Chemistry

Value added course on soil and water testing










Time – Table 2019 - 2020

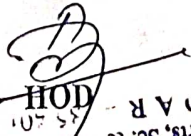
Day/Time	9am - 10am	10am - 10:30am	10:30am - 12:30pm
Wed	Theory	Break	Practical
Thu	Theory		Practical


HOD
Head of the
Chemistry Department
Karnatak Arts, Sc. & Comm. College
B I D A R - 585 401

Theory

SI No.	Name of the student	8/1	9/2	15/1	16/1	22/1	23/1	29/1	30/1	5/2	6/2			
1	Sujata S	P	A	P	P	P	A	P	P	P	P			
2	Rakshitha A	P	P	P	A	P	P	P	P	P	P			
3	Shweta R	P	P	P	P	P	A	P	P	P	P			
4	Shruthi B	P	A	P	P	P	P	P	A	P	P			
5	Patil Bhavani	P	A	P	P	P	P	P	P	P	A			
6	Soubhagya S	P	P	P	A	P	A	P	P	P	P			
7	Bhagyashree	P	P	P	A	P	P	P	A	P	P			
8	Rohini M Sutar	P	P	P	P	P	P	P	P	P	P			
9	Pooja V	P	P	P	P	P	P	P	P	P	A			
10	Rohini R Sutar	P	A	P	P	P	A	P	P	P	P			
11	Madhurani S	P	P	P	P	P	P	P	P	P	P			
12	Vaishnavi S	P	P	P	P	P	P	P	P	P	P			
13	Shalini Sanjay	P	P	P	A	P	P	P	A	P	P			
14	Vaishali Patil	P	P	P	P	P	P	P	P	P	P			

15	Moona Arfath	P	P	P	P	P	A	P	P	P			
16	Shivkumar A	P	P	A	A	P	P	P	P	P			
17	Mana Vijaykumar	P	P	P	P	P	A	P	A	A	P		
18	Sarvesh M	A	P	P	P	P	A	P	P	P	P		
19	Ambika Baliram	P	P	P	P	P	P	P	P	P	P		
20	Manikeshwari B	P	A	P	P	A	A	P	P	P	A		
21	Deepika J	P	A	P	P	P	P	P	P	P	A		
22	Shivkumar R	A	P	P	P	P	P	P	P	P	P		
23	Amargonda C	P	P	P	P	A	A	P	P	P	P		
24	Nandkumar M	P	P	P	A	P	P	A	P	P	A		
25	Monika C	P	P	P	A	P	P	P	P	P	P		
Sign of faculty													


HOD
 Arts, Sc. & Commerce
 College
 Head of the

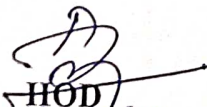

Principal

**Vice-Principal &
 IQAC, Coordinator**
 Karnatak Arts, Science &
 Commerce College

Practical.

SI No.	Name of the student	$\frac{22}{1}$	$\frac{23}{1}$	$\frac{29}{1}$	$\frac{30}{1}$	$\frac{5}{2}$	$\frac{6}{2}$	$\frac{12}{2}$	$\frac{13}{2}$	$\frac{19}{2}$	$\frac{20}{2}$			
1	Sujata S	P	P	P	P	P	P	A	P	P	P			
2	Rakshitha A	P	P	P	P	P	P	A	P	P	P			
3	Shweta R	P	P	P	P	P	P	P	A	P	P			
4	Shruthi B	P	P	P	P	P	P	P	A	P	P			
5	Patil Bhavani	P	P	A	A	A	P	P	P	P	P			
6	Soubhagya S	P	A	A	A	A	P	P	P	P	P			
7	Bhagyashree	P	P	P	P	P	P	P	A	P	P			
8	Rohini M Sutar	P	P	P	P	P	A	P	P	P	A			
9	Pooja V	P	P	A	A	P	P	P	P	P	A			
10	Rohini R Sutar	P	A	P	P	P	A	P	P	P	P			
11	Madhurani S	P	P	P	P	P	P	A	P	P	A			
12	Vaishnavi S	P	P	P	P	P	P	A	P	P	P			
13	Shalini Sanjay	P	P	P	P	P	P	P	P	P	P			
14	Vaishali Patil	A	P	P	P	P	P	P	P	P	P			

15	Moona Arfath	P	P	P	P	P	P	A	P	P	P				
16	Shivkumar A	P	P	P	P	P	P	A	P	A	P				
17	Mana Vijaykumar	P	P	P	P	P	P	P	P	P	P				
18	Sarvesh M	P	P	A	A	P	P	P	A	A	P				
19	Ambika Baliram	P	P	P	P	P	P	P	A	P	A				
20	Manikeshwari B	P	P	P	P	P	P	A	P	A	A				
21	Deepika J	P	P	P	P	P	P	A	P	P	P				
22	Shivkumar R	A	P	P	P	P	P	P	A	P	P				
23	Amargonda C	P	P	A	A	P	P	P	P	A	A				
24	Nandkumar M	P	P	P	P	P	P	P	A	P	P				
25	Monika C	P	P	P	P	P	P	P	A	P	P				
Sign of faculty															


HOD
 Head of the
 Chemistry Department
 Karnatak Arts, Sc. & Comm. College
 BIDAR - 585 401


Principal
 Vice-Principal &
 IQAC. Coordinator
 Karnatak Arts, Science &
 Commerce College, Bidar



Karnatak Arts, Science & Commerce College, Bidar

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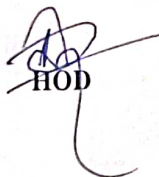



Department of Chemistry

Date: 25 - 02 - 2020

NOTICE

All the students enrolled in Add-on course on “Soil and water Testing” are here by informed that, the course Internal examination is scheduled on 02 – 03 – 2022 from 10am – 11am.


HOD


Principal
PRINCIPAL
Karnatak Arts, Science &
Commerce College, BIDAR



Karnatak Arts, Science & Commerce College, Bidar

ESTD. 1970
(Affiliated to Gulbarga University)
College With Potential for Excellence



Department of Chemistry

Add on course On Soil & Water Testing

Internal Examination Attendance 2019 - 2020

Sl.No	Name of the student	Signature
1	Sujata S	Sujata
2	Rakshita A	Rakshita
3	Shweta R	Shweta
4	Shruti B	Shruti
5	Patil Bhavani	Patil Bhavani
6	Soubhagya S	Soubhagya
7	Bhagyashree	Bhagyashree
8	Rohini M Sonar	Rohini M Sonar
9	Pooja V	Pooja
10	Rohini R Sutar	Rohini R Sutar
11	Madhurani S	Madhurani S
12	Vaishnavi S	Vaishnavi
13	Shalini Sanjay	Shalini Sanjay
14	Vaishali Patil	Vaishali Patil
15	Moona Arfath	Moona Arfath
16	Shivkumar A	Shivkumar A
17	Mana Vijaykumar	Mana Vijaykumar
18	Sarvesh M	Sarvesh M
19	Ambika Baliram	Ambika Baliram
20	Manikeshwari B	Manikeshwari B
21	Deepika J	Deepika J
22	Shivkumar R	Shivkumar R
23	Amargonda C	Amargonda C
24	Nandkumar M	Nandkumar M
25	Monika C	Monika C

Candidates present - 25

Candidates absent - 00

Total - 25

Saloni
Invigilator

Name -

K. R. E. SOCIETY'S
KARNATAK ARTS, SCIENCE & COMMERCE COLLEGE, BIDAR
Add-on Course Internal 2019-20
Paper;- Soil and Water Analysis

Time- 1Hour

Maximum marks - $20 \times 2 = 40$

1. The nitrate concentration in domestic water supplies ,is generally limited to.
a) 10ppm b) 15ppm c) 30ppm d) 45ppm
2. Carbonates in water produce.
a) Temporary hardness b) Permanent hardness c) Acidity d) Alkanity
3. Ground water from artiesian walls.
a) Contains no suspended materials b) Contains dissolved salts
c) may be saltish and hard d) All the above
4. Alum is a.
a) coagulant b) Flocculent C) Catalyst d) Disinfectant
5. Sluice valves are fitted in a distribution system.
a) Along straight length of pipes at suitable intervals b) At the junction of pipes.
c) At the branching off points of sub- mains d) All the above
6. The ratio of maximum hourly consumption and average hourly consumption of the maximum day, is
a) 1.2 b) 1.5 c) 1.8 d) 2.7
7. If the average daily demand of a city of 50,000 population, is 20 m.l.d., the maximum daily demand is
a) 24 mld b) 30 mld c) 36 mld d) 54 mld
8. Aqueducts are generally designed
a) circular b) Rectangular c) Horse shoe section d) All of the above
9. Water losses in water supply, is assumed as
a) 5% b) 7.5% c) 10% d) 15%
10. The requirement of water per capita per day, is
a) 90 litres b) 120 litres c) 150 litres d) 400 litres

11. The maximum permitted loss of head in a rapid sand filter, is
a) 1m b) 2m c) 3m d) 4m

12. Earth's body of soil is known as?
a) Pedosphere b) Lithosphere c) Biosphere d) Hydrosphere

13. Soil science has how many branches of study?
a) 4 b) 1 c) 2 d) 3

14. Which soils are formed from chemical decomposition of rocks?
a) Laterite Soils b) Marine deposits c) Black soil d) Alluvial

15. Which soils are pink or red in colour?
a) Laterite Soils b) Marine deposits c) Black soil d) Alluvial

16. Which soils are formed by the sediments brought down by the rivers?
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17. Which soil is formed from arid conditions with practically negligible rainfall?
a) Marine deposits b) Desert soils c) Black soil d) Alluvial

18. Which soils are also called as regur soils?
a) Marine deposits b) Desert soils c) Black soil d) Alluvial

19. Which soil is suitable for the growth of cotton?
a) Marine deposits b) Desert soils c) Black soil d) Alluvial

20. Name the soil with low shearing strength and high compressibility?
a) Marine deposits b) Desert soils c) Black soil d) Alluvial

Name - Rohini.R.

16x2
20

32
40

5

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K.R.E. Society
Karnatak Arts, Science & Commerce College, Bidar.
Department of Chemistry
Add on course On Soil & Water Testing

Key Answer 2019 – 20

Q. No.	Ans.	Q. No.	Ans.
1	d	11	c
2	a	12	d
3	c	13	a
4	d	14	a
5	b	15	d
6	a	16	c
7	b	17	c
8	b	18	a
9	d	19	d
10	a	20	d



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Department of Chemistry

Add on course On Soil & Water Testing

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4	Shruti B	32
5	Patil Bhavani	36
6	Soubhagya S	30
7	Bhagyashree	28
8	Rohini M Sonar	32
9	Pooja V	30
10	Rohini R Sutar	32
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15	Moona Arfath	30
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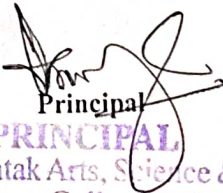
Department of Chemistry

Date: 03 -03-2020

NOTICE

All the students enrolled in Add-on course on "Soil and water Testing" are here by informed that, the course External examination is scheduled on 07 – 03 -2020 from 10am – 11am.


HOD of the
Chemistry Department
Karnatak Arts, Sc. & Comm. College
B I D A R - 585 401


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Add-on Course Examination 2019-20
Paper;- Soil and Water Analysis

Time- 1Hour

Maximum marks - 60

1. Which type of soil is in the region of the coastal areas of Orissa and Tamil Nadu, Sunderbans of West Bengal, in Bihar and Almora district of Uttaranchal?
a) Marshy soils b) Red soil c) Black soil d) Alluvial
2. Which of the following are the primary causes of water pollution?
a) Plants b) Animals c) Human activities d) None of these
3. Which of the following techniques is used for reducing the total dissolved solids (TDS) in the water?
a) Osmosis b) Ion exchange c) Distillation d) Both b and c
4. Which of the following statements are true about CNG -Compressed natural gas?
(a) It is a clean fuel b) It is a harmful fuel c) It is a polluting fuel d) All of the above
5. Which of the following salts is the main cause of permanent hardness of water?
a) Magnesium sulphate b) Magnesium bicarbonate c) Magnesium carbonate d) None of the above
6. Which of the following is mainly responsible for the causes of water pollution?
a) Afforestation b) Oil refineries c) Paper factories d) Both b and c
7. Chlorofluorocarbon are nonflammable chemicals mainly used in .
a) Perfumes b) Refrigerators c) Air conditioners d) All of the above
8. Which of the following techniques is used to determine the concentration of odour compounds in the given water sample?
a) Settling b) Flushing c) Stripping d) Chlorinat
9. What is the health effects of excess fluoride in drinking water?
a) Fluorosis b) Toothaches c) Lung disease d) Intestinal infection
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11. Which of the following is a waterborne disease?
a) Typhoid b) Cholera c) Diarrhoea d) All of the above
12. The main sources of Arsenic in water are .
a) Floods b) Fertilizers c) Industrial waste d) Both b and c
13. In most freshwater lakes, the algal productivity is limited by the availability of which of the following inorganic ions?
a) Carbon b) Nitrogen c) Phosphorus d) All of the above

14. Which of the following diseases or infections is caused due to poor water hygiene?
a) Leprosy b) Trachoma c) Conjunctivitis d) All of the above
15. Which of the following statements is true about the composition of Calcium Carbonate (CaCO_3) in soft water?
a) 0 to 30 milligrams of CaCO_3 per litre b) 30 to 60 milligrams of CaCO_3 per litre
c) 60 to 90 milligrams of CaCO_3 per litre d) 90 to 120 milligrams of CaCO_3 per litre
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17. According to the Geological survey, water with less than 1000 ml/litre of total dissolved solids is
a) Brine water b) Freshwater c) Slightly saline d) Moderately saline
18. The amount of dissolved solids passing through the filters in the process of filtration is called ____
a) Independent of suspended solids b) Sum of total solids and suspended solids
c) Difference between total solids and suspended solids d) All of the above
19. Which of the following units is used for measuring the turbidity of water?
a) EAU Formazin Attenuation Units b) FNU- Formazin Nephelometric Unit
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- a) Pedosphere b) Lithosphere c) Biosphere d) Hydrosphere

33. Soil science has how many branches of study?

- a) 4 b) 1 c) 2 d) 3

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- a) Laterite Soils b) Marine deposits c) Black soil d) Alluvial

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38. Which soils are also called as regur soils?

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39. Which soil is suitable for the growth of cotton?

- a) Marine deposits b) Desert soils c) Black soil d) Alluvial

40. Name the soil with low shearing strength and high compressibility?

- a) Marine deposits b) Desert soils c) Black soil d) Alluvial

41. Which of the following is engineering properties of black soils?

- a) High compressibility b) Low bearing capacity c) Low shearing strength d) All the above.

42. Mineral material from which a soil forms is known as?

- a) Basic b) Parent c) Raw d) Main

43. Sedimentary deposits settled in lakes are called _____.

- a) Lacustrine b) Aeolian c) Calcite d) Feldspar

44. Which of the following is an example of sediment?

- a) Clay, gravel, sand, pieces of shell b) Only Clay c) Only pieces of shell d) Only sand

45. Planting different crops each year (corn one year, beans the next) is called what?
a) Terracing b) No Till-farming c) Wind Breakers d) Crop Rotation
46. Making steps on the side of a mountain to slow down water erosion is called what?
a) Terracing b) No Till-farming c) Wind Breakers d) Crop Rotation
47. What is the name of the layer of soil just under the grass?
a) topsoil b) subsoil c) bedrock d) parent rock
48. After digging deeper and deeper, you would eventually hit solid (unweathered) rock, called ____
a) Humus b) organic material c) subsoil d) bedrock
49. Which soils are usually free of lime and so are very sour?
a) Laterite Soils b) Peat soil c) Black soil d) Alluvial
50. Formation of soil is known as?
a) Pedogenesis b) Anthropogenic c) Regoliths d) Mycorrhizal
51. The mixing of the soil by the activities of animals is known as?
a) Anthropogenic b) Regoliths c) Mycorrhizal d) Pedoturbation
52. Alluvium soil is later divided into how many parts?
a) 3 b) 4 c) 1 d) 2
53. Along the Shiwalik foothills, there are alluvial fans having coarse, often pebbly soils. What is the name of the zone?
a) Bhabar b) Regoliths c) Mycorrhizal d) Pedoturbation
54. Black soils are derived from how many types of rocks?
a) 5 b) 4 c) 2 d) 3
55. Laterite and Lateritic Soils are suitable for the growth of?
a) Tea b) Coconut c) Rubber d) All the above
56. In how many groups Indian soil is divided?
a) 7 b) 8 c) 6 d) 9
57. Indian soils can broadly be divided into how many types?
a) 2 b) 3 c) 4 d) 5
58. Tamil Nadu has which type of soil?
a) Laterite Soils b) Red soil c) Black soil d) Alluvial
59. Which soil has acid granites and gneisses, quartzitic and felspathic as its parent rock?
a) Laterite Soils b) Red soil c) Black soil d) Alluvial
60. Which type of soil is found in Andhra Pradesh and Karnataka?
a) Saline b) Alkaline Soils c) Black d) Both a & b

Name - Robini . R .

44
60

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a) Humus b) organic material c) subsoil d) bedrock
49. Which soils are usually free of lime and so are very sour?
a) Laterite Soils b) Peat soil c) Black soil d) Alluvial
50. Formation of soil is known as?
 a) Pedogenesis b) Anthropogenic c) Regoliths d) Mycorrhizal
51. The mixing of the soil by the activities of animals is known as?
a) Anthropogenic b) Regoliths c) Mycorrhizal d) Pedoturbation
52. Alluvium soil is later divided into how many parts?
a) 3 b) ~~4~~ c) 1 d) 2
53. Along the Shiwalik foothills, there are alluvial fans having coarse, often pebbly soils. What is the name of the zone?
 a) Bhabar b) Regoliths c) Mycorrhizal d) Pedoturbation
54. Black soils are derived from how many types of rocks?
a) 5 b) 4 c) 2 d) 3
55. Laterite and Lateritic Soils are suitable for the growth of?
a) Tea b) Coconut c) Rubber d) All the above
56. In how many groups Indian soil is divided?
a) 7 b) 8 c) 6 d) 9
57. Indian soils can broadly be divided into how many types?
 a) 2 b) 3 c) 4 d) 5
58. Tamil Nadu has which type of soil?
a) Laterite Soils b) Red soil c) Black soil d) Alluvial
59. Which soil has acid granites and gneisses, quartzitic and felspathic as its parent rock?
a) Laterite Soils b) Red soil c) Black soil d) Alluvial
60. Which type of soil is found in Andhra Pradesh and Karnataka?
a) Saline b) Alkaline Soils c) Black d) Both a & b

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Department of Chemistry
Add on course On Soil & Water Testing

Key Answer 2019 – 20

Q. No.	Ans.	Q. No.	Ans.	Q. No.	Ans.
1	a	21	a	41	d
2	c	22	d	42	b
3	d	23	a	43	a
4	a	24	d	44	a
5	a	25	a	45	d
6	d	26	d	46	a
7	c	27	d	47	a
8	c	28	c	48	d
9	a	29	d	49	b
10	d	30	d	50	a
11	d	31	a	51	d
12	d	32	a	52	d
13	c	33	c	53	a
14	d	34	a	54	c
15	b	35	a	55	d
16	d	36	d	56	b
17	b	37	b	57	a
18	b	38	c	58	b
19	d	39	c	59	b
20	a	40	a	60	d



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External Marks List 2019 - 2020

Sl.No	Name of the student	Marks
1	Sujata S	40
2	Rakshita A	47
3	Shweta R	45
4	Shruti B	57
5	Patil Bhavani	43
6	Soubhagya S	45
7	Bhagyashree	39
8	Rohini M Sonar	55
9	Pooja V	45
10	Rohini R Sutar	44
11	Madhurani S	47
12	Vaishnavi S	41
13	Shalini Sanjay	37
14	Vaishali Patil	36
15	Moona Arfath	48
16	Shivkumar A	50
17	Mana Vijaykumar	46
18	Sarvesh M	51
19	Ambika Baliram	51
20	Manikeshwari B	49
21	Deepika J	44
22	Shivkumar R	41
23	Amargonda C	48
24	Nandkumar M	53
25	Monika C	39

Candidates present - 25

Candidates absent - 00

Total - 25

Saloni
Invigilator



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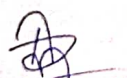



Department of Chemistry

Add on course On Soil & Water Testing

Marks List 2019 - 2020

Sl. No	Name of the student	Internal Marks (40)	External Marks (60)	Total (100)
1	Sujata S	38	40	78
2	Rakshita A	36	47	83
3	Shweta R	34	45	79
4	Shruti B	32	57	89
5	Patil Bhavani	36	43	79
6	Soubhagya S	30	45	75
7	Bhagyashree	28	39	67
8	Rohini M Sonar	32	55	87
9	Pooja V	30	45	75
10	Rohini R Sutar	32	44	76
11	Madhurani S	28	47	75
12	Vaishnavi S	28	41	69
13	Shalini Sanjay	26	37	63
14	Vaishali Patil	30	36	66
15	Moona Arfath	30	48	78
16	Shivkumar A	28	50	78
17	Mana Vijaykumar	32	46	78
18	Sarvesh M	32	51	83
19	Ambika Baliram	32	51	83
20	Manikeshwari B	28	49	77
21	Deepika J	26	44	70
22	Shivkumar R	36	41	77
23	Amargonda C	22	48	70
24	Nandkumar M	26	53	79
25	Monika C	18	39	57


Head of the
Chemistry Department
Karnatak Arts, Sc. & Comm. College
B I D A R - 585 401


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Department of Chemistry

“Add on Course ”on Soil and Water testing

2019 -2020

Report


Name of the Course : Soil and Water Testing


Name of the Department : Chemistry

Duration : 30 hrs

Number of Students : 25

Department of Chemistry conducted Add- on course on Soil and Water Testing. This course helps students to improve working ability in analytical laboratory. This helps to gain knowledge and equip the students with tools and techniques . Students will be able to identify soil types and will be able to identify ways to improve soil fertility as well as reduce soil erosion and improve water quality and availability . At the end of term we have conducted examination and issued certificates.


HOD of the
Chemistry Department
Karnatak Arts, Sc. & Comm. College.
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