

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

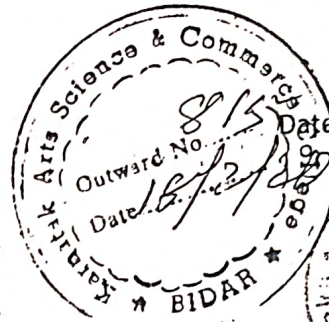
Value added course on Soil and Water Testing

Course Co-ordinator

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

Karnatak Arts Science & Commerce Society

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



Date: 17/02/2020



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 Kalpana

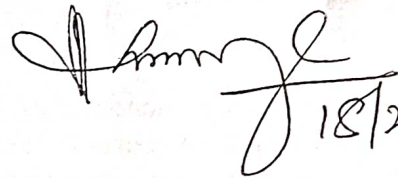
Sincerely

S. H. A. R. D. Mamane

Department of Chemistry
Head Department of Chemistry
Karnatak Arts Science & Commerce College
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 permit to collect the fees of Rs. 200/- Each student to meet the necessary expenditure and permit to deposit the collected fees in account 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).


18/2/2023

Kalyani

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

permitted.


B. R. Manna

A. R. Manna to attend

Kalyani



ಕರ್ನಾಟಕ ಕಲಾ, ವಿಜ್ಞಾನ ಹಾಗೂ ವಾಣಿಜ್ಯ ಪದವಿವಿಧ್ಯಾಲಯ, ಜಿಲ್ಲೆಬಿದರ
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,

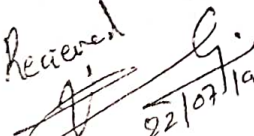
I am very happy to inform you that, our institution under Department of Chemistry would like to start an add on course titled " Soil & Water Testing ". In this context I am requesting you to serve as Member of Institutional Board of Studies for the above mentioned Course.

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.

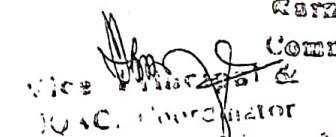

Head

Department of Chemistry
Karnatak Arts Science & Commerce College
Bidar-585401

Received

22/07/19


Principal

Karnatak Arts Science &
Commerce College, BIDAR


IQAC Coordinator
Karnatak Arts Science &
Commerce College, Bidar



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

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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 ಪರಿಷತ್‌ನ ಅಧೀನದಲ್ಲಿ,
KARNATAK ARTS, SCIENCE & COMMERCE COLLEGE, BIDAR

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Golden Jubilee Celebration - 1970-2020

- **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 pattern.

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

Vice-Principal

IOAC Co-ordinator

Karnatak Arts Science & Commerce College, Bidar

Bidar-585401

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

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

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

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



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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 tends to understand the status of soil and water resources which are important for human and agriculture both. Soil analysis is considered as a significant tool to understand the nutrient needs of the plants, whereas water analysis is important because it identifies contaminants and prevents water-borne diseases.

Bidar district consists of a large agriculturist population and hence this course is 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:-

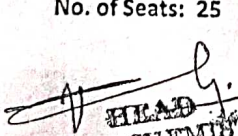
Total contact hours:




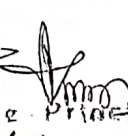
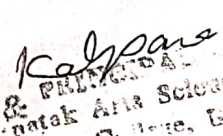
Theory Classes:	10 Hours
Practical Lab Work:	20 Hours
	<hr/>
	30 Hours

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.)

    
HOD - Vice Principal & PRT
Department of Chemistry
Karnatak Arts Sc. & Commerce 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:

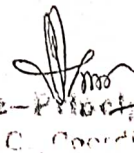
1. Manual On Soil, Plant And Water Analysis – 1 Jan 2007, by Dhyan Singh (Author), A1 Publisher
2. Manual for Soil and Water Analysis, P Buurman et al. Backhuys Publishers Leiden, 1996

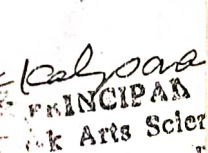

HEAD
Dept of CHEMISTRY
B.V.B Degree College
BIDAR-585403 (K.B.)











Vice-Principal
NO. 1040
Department of Chemistry
Karnatak Arts and Commerce College, Bidar

PRINCIPAL
Karnatak Arts and Science College, Bidar



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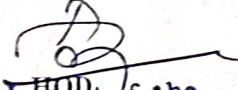


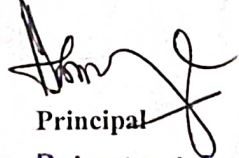
Department of Chemistry

Date: 30 - 12 - 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 06 - 01 - 2021, interested students can enrol their names on or before 5 - 01 - 2021 in the Department of Chemistry.

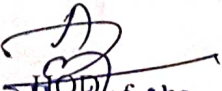

HOD of the
Chemistry Department
Karnatak Arts, Sc. & Comm. College
B I D A R - 585 401



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

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

Sl.No	Name of the student	Semester
1.	Nandini S	B.Sc IV Sem
2.	Vaishnavi M	B.Sc IV Sem
3.	Hema A Sagar	B.Sc IV Sem
4.	Neelavati D	B.Sc IV Sem
5.	Sushma A	B.Sc IV Sem
6.	Apoorva R	B.Sc IV Sem
7.	Swati Yanagunde	B.Sc IV Sem
8.	Ashwini Basavaraj	B.Sc IV Sem
9.	Pallavi Chickbase	B.Sc IV Sem
10.	Aishwrya R	B.Sc IV Sem
11.	Kavya S	B.Sc IV Sem
12.	Monica S	B.Sc IV Sem
13.	Triveni B	B.Sc IV Sem
14.	Kanchan Sajjan	B.Sc IV Sem
15.	Pooja Patil	B.Sc IV Sem
16.	Omar farooq	B.Sc IV Sem
17.	Renuka S	B.Sc IV Sem
18.	Usha Manjunath	B.Sc IV Sem
19.	Soumya S	B.Sc IV Sem
20.	Aishwarya C	B.Sc IV Sem
21.	G Moksha M	B.Sc IV Sem
22.	Maliha Muskan	B.Sc IV Sem
23.	Karthika Jadhav	B.Sc IV Sem
24.	Angelin Kote	B.Sc IV Sem
25.	Pallavi Rajkumar	B.Sc IV Sem


Head of the
Chemistry Department
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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 2021

Name of the Student Nandini

Father's/Guardian's Name Shastanappa

Date of Birth Date 15 Month 07 Year 2000



Address for Correspondence :

Molegaon TIE, DII Bidar.

Semester/Class : BSc IIIrd Semester.

Register No : 52062891

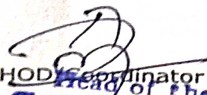
Percentage of previous semester : 85%

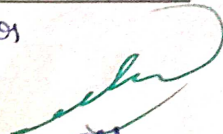
Contact No : 7022873119

E-Mail ID : shastKasi.nandini.9@gmail.com.

Course to be Joined: BSc (CBZ) Skill development.
Add on course on soil and water

Nandini.
Signature of the Student


HOD/Coordinator
Head of the
Chemistry Department
Karnatak Arts, Sc. & Com. College
B I D A R - 585 60.


PRINCIPAL
Karnataka Arts Sci. & Com. College
BIDAR - 585 601



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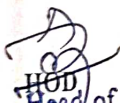


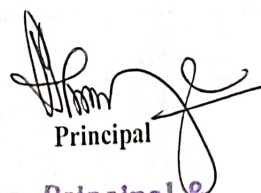
Department of Chemistry

Date: 05 - 01 - 2021

NOTICE

All the students of B.Sc V Sem are hereby informed that, the Department of Chemistry is starting the add-on course on **Soil and Water Testing** will commence from 06 - 01 - 2021 and are directed to attend the classes as per the time table.


HOD
Head of the
Chemistry Department
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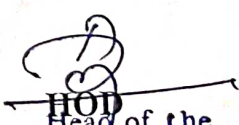

Principal
Vice-Principal &
IQAO. Coordinator
Karnatak Arts, Science &
Commerce College, Bidar

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

Value added course on soil and water testing

Time – Table 2020 - 2021

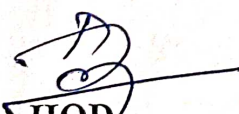
Day/Time	9am - 10am	10am - 10:30am	10:30am - 12:30pm
Wed	Theory	Break	Practical
Thu	Theory		Practical

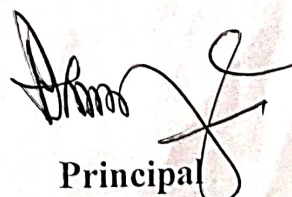

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Chemistry Department
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B I D A R - 585 401

Theory

SI No.	Name of the student	6/1	7/1	19/01	20/1	21/1	27/1	28/1	3/2	4/2	10/2	11/2		
1	Nandini	P	P	P	P	P	P	P	P	P	P	P		
2	Vaishnavi M	P	P	P	A	P	P	P	P	P	P	P		
3	Hema A Sagar	P	P	P	P	A	P	P	P	P	P	P		
4	Neelavati D	P	P	P	A	P	P	P	A	A	P	P		
5	Sushma A	P	P	P	P	P	P	P	P	P	A	P		
6	Apoorva R	A	A	P	P	P	P	P	A	A	A	P		
7	Swati Yanogunde	P	P	P	A	A	P	P	P	P	P	P		
8	Ashwini Basavaraj	P	P	P	P	P	P	P	P	P	P	P		
9	Pallavi Chikbase	A	A	P	P	P	P	P	P	P	A	P		
10	Aishwarya R	P	P	P	P	P	A	P	A	A	P	P		
11	Kavya S	P	P	P	P	A	P	P	P	P	P	P		
12	Monika S	P	P	A	P	P	P	P	P	P	P	P		
13	Triveni B	P	P	P	P	P	P	A	P	P	P	P		
14	Kanchan Sajjan	P	P	A	P	P	A	P	P	P	P	P		

15	Pooja Patil	P	P	A	P	P	P	P	P	P	P		
16	Omar Farooq	P	P	P	A	P	P	P	P	P	P		
17	Renuka S	P	P	A	P	A	P	P	P	P	A	P	
18	Usha Manjunath	A	A	A	P	P	P	P	A	A	P	P	
19	Soumya S	P	P	P	A	P	P	P	P	P	P	P	
20	Aishwarya C	A	A	P	P	P	P	P	A	A	P	P	
21	G Moksha M	P	P	P	P	A	P	P	P	P	A	P	
22	Maliha Muskan	P	P	P	A	P	P	P	P	P	A	P	
23	Kartika Jadav	A	A	P	P	P	P	P	A	A	P	P	
24	Angelin Kote	P	P	P	A	P	P	P	P	P	P	P	
25	Pallavi Rajkumar	P	P	P	P	P	P	P	P	P	A	P	
Sign of faculty		M	M	A	A	Soumya	S	S	A	M	A	P	



HOD
 Head of the
 Chemistry Department
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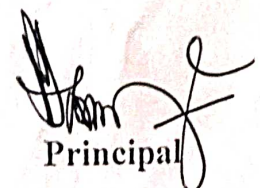

Principal
Vice-Principal &
IQAC. Coordinator
 Karnatak Arts, Science &
 Commerce College, Bidar

Practical

SI No.	Name of the student	$\frac{21}{1}$	$\frac{27}{1}$	$\frac{28}{1}$	$\frac{3}{2}$	$\frac{4}{2}$	$\frac{10}{2}$	$\frac{11}{2}$	$\frac{17}{2}$	$\frac{18}{2}$	$\frac{24}{2}$			
1	Nandini	P	P	P	P	P	A	P	P	P	P			
2	Vaishnavi M	P	P	P	P	P	A	P	P	P	P			
3	Hema A Sagar	P	P	P	A	A	P	P	P	A	P			
4	Neelavati D	P	P	P	P	P	A	P	P	P	P			
5	Sushma A	P	P	P	P	P	P	P	P	A	P			
6	Apoorva R	P	P	P	P	P	A	P	P	P	P			
7	Swati Yanogunde	P	P	P	A	A	P	P	P	P	P			
8	Ashwini Basavaraj	P	P	P	A	A	P	P	P	P	P			
9	Pallavi Chikbase	P	P	P	P	P	P	P	P	A	P			
10	Aishwarya R	P	P	P	P	P	P	P	P	A	P			
11	Kavya S	P	P	P	P	P	P	P	P	P	P			
12	Monika S	P	P	P	P	P	A	P	P	A	P			
13	Triveni B	P	P	P	P	P	P	P	P	P	P			
14	Kanchan Sajjan	P	P	P	P	P	P	P	P	A	P			

15	Pooja Patil	P	P	P	P	P	P	P	A	P			
16	Omar Farooq	P	P	P	P	P	A	P	P	P	A		
17	Renuka S	P	P	P	A	A	P	P	P	P	P		
18	Usha Manjunath	P	P	P	P	P	P	P	P	P	P		
19	Soumya S	P	P	P	P	P	P	P	P	P	P		
20	Aishwarya C	P	P	P	P	P	P	P	P	P	P		
21	G Moksha M	P	P	P	A	A	P	P	P	A	P		
22	Maliha Muskan	P	P	P	P	P	A	P	P	A	P		
23	Kartika Jadav	P	P	P	P	P	A	P	P	P	P		
24	Angelin Kote	P	P	P	A	A	P	P	P	A	P		
25	Pallavi Rajkumar	P	P	P	P	P	P	P	P	P	P		
Sign of faculty													


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



Karnatak Arts, Science & Commerce College, Bidar

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College With Potential for Excellence




Department of Chemistry

Date: 22 - 01 -2021

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 29- 01 - 2021 from 11am - 12pm.


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


**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 Attendance 2020 - 2021

Sl.No	Name of the student	Signature
1	Nandini S	Nandini
2	Vaishnavi M	Vaishnavi
3	Hema A Sagar	Hema
4	Neelavati D	Neelavati
5	Sushma A	Sushma
6	Apoorva R	Apoorva
7	Swati Yanagunde	Swati
8	Ashwini Basavaraj	Ashwini
9	Pallavi Chickbase	Pallavi
10	Aishwarya R	Aishwarya
11	Kavya S	Kavya
12	Monika S	Monika
13	Tirveni B	Tirveni
14	Kanchan sajjan	Kanchan
15	Pooja Patil	Pooja
16	Omer Farooq	Omer
17	Renuka S	Renuka
18	Usha Manjunath	Usha
19	Soumya S	Soumya
20	Aishwarya C	Aishwarya
21	G Moksha M	G Moksha
22	Maliha Muskan	Maliha
23	Kartika Jadav	Kartika
24	Angelin Kote	Angelin
25	Pallavi Rajkumar	Pallavi

Candidates present - 25

Candidates absent - 00

Total - 25


Invigilator

Name -

K. R. E. SOCIETY'S
KARNATAK ARTS, SCIENCE & COMMERCE COLLEGE, BIDAR
Add-on Course Internal - 2020-21
Paper:- Soil and Water Analysis

Time- 1Hour

Maximum marks - 20 * 2 = 40

1. The maximum permitted loss of head in a rapid sand filter, is
a) 1m b) 2m c) 3m d) 4m
2. Mud balls may be removed by.
a) Breaking and washing b) Washing the filter with a solution of caustic soda
c) Removing, cleaning and replacing the damaged sand d) All the above
3. The lowest outlet sluice in a dam is provided.
a) Below the dead storage b) On the top level of dead storage
b) On the top level of useful storage d) At the centre of the dam
4. The strainer type tube well, is unsuitable for.
a) Coarse gravels b) Fine sandy strata c) Clean gravels d) None of the above
5. Cast iron pipes are generally preferred to, because
a) Of moderate cost b) of ease to join c) of longer life d) All the above
6. Which of the following statements is true about the composition of Calcium Carbonate (CaCO₃) in soft water?
a) 0 to 30 milligrams of CaCO₃ per litre b) 30 to 60 milligrams of CaCO₃ per litre
c) 60 to 90 milligrams of CaCO₃ per litre d) 90 to 120 milligrams of CaCO₃ per litre
7. Which of the following salts are the main causes of temporary hardness?
a) Calcium sulphate b) Magnesium sulphate
c) Magnesium chloride d) Magnesium carbonate
8. 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
9. 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

10. Which of the following units is used for measuring the turbidity of water?
a) EAU Formazin Attenuation Units b) FNU- Formazin Nephelometric Unit
c) NTU – Nephelometric Turbidity Units d) All of the above
11. Which of the following is not a waterborne disease?
a) Measles b) Typhoid c) Cholera d) Hepatitis
12. The nitrate concentration in domestic water supplies, is generally limited to
a) 10ppm b) 15ppm c) 30ppm d) 45ppm
13. Carbonates in water produce.
a) Temporary hardness b) Permanent hardness c) Acidity d) Alkalinity
14. Ground water from artesian wells.
a) Contains no suspended materials b) Contains dissolved salts
c) may be saltish and hard d) All the above
15. Alum is a.
a) coagulant b) Flocculent c) Catalyst d) Disinfectant
16. 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
17. 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
18. 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
19. Aqueducts are generally designed
a) circular b) Rectangular c) Horse shoe section d) All of the above
20. Water losses in water supply, is assumed as
a) 5% b) 7.5% c) 10% d) 15%

19x2
20

38
40

Name - Nandini S

K. R. E. SOCIETY'S
KARNATAK ARTS, SCIENCE & COMMERCE COLLEGE, BIDAR
Add-on Course Internal - 2020-21
Paper;- Soil and Water Analysis

Time- 1Hour

Maximum marks - 20x2 = 40

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Department of Chemistry

Add on course On Soil & Water Testing

Internal Marks List 2020 - 2021

Sl.No	Name of the student	Marks
1	Nandini S	38
2	Vaishnavi M	36
3	Hema A Sagar	28
4	Neelavati D	30
5	Sushma A	28
6	Apoorva R	30
7	Swati Yanagunde	30
8	Ashwini Basavaraj	30
9	Pallavi Chickbase	34
10	Aishwarya R	34
11	Kavya S	32
12	Monika S	26
13	Tirveni B	30
14	Kanchan sajjan	32
15	Pooja Patil	22
16	Omer Farooq	26
17	Renuka S	26
18	Usha Manjunath	26
19	Soumya S	28
20	Aishwarya C	30
21	G Moksha M	34
22	Maliha Muskan	28
23	Kartika Jadav	36
24	Angelin Kote	32
25	Pallavi Rajkumar	30

Candidates present - 25

Candidates absent - 00

Total - 25

Invigilator



Karnatak Arts, Science & Commerce College, Bidar

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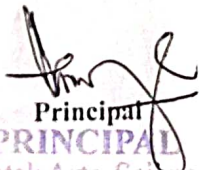
Department of Chemistry

Date: 25 -02 -2021

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 1/03/2021 from 10am – 11am.


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


**Principal
PRINCIPAL
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Department of Chemistry

Add on course On Soil & Water Testing

External Exam Attendance 2020 - 2021

Sl.No	Name of the student	Signature
1	Nandini S	Nandini
2	Vaishnavi M	Vaishnavi
3	Hema A Sagar	Hema
4	Neelavati D	Neelavati
5	Sushma A	Sushma
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25	Pallavi Rajkumar	Pallavi

Candidates present - 25

Candidates absent - 00

Total - 25


Invigilator

Name -

K. R. E. SOCIETY'S
KARNATAK ARTS, SCIENCE & COMMERCE COLLEGE, BIDAR
Add-on Course Examination - 2020-21
Paper;- Soil and Water Analysis

Time- 1Hour

Maximum marks - 60

1. Earth's body of soil is the known as?

- a) Pedosphere b) Lithosphere c) Biosphere d) Hydrosphere

2. Soil science has how many branches of study?

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

3. Which soils are formed from chemical decomposition of rocks?

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

4. Which soils are pink or red in colour?

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

5. Which soils are formed by the sediments brought down by the rivers?

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

6. Which soil is formed from arid conditions with practically negligible rainfall?

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

7. Which soils are also called as regur soils?

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

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

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

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

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

10. 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.

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

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

12. Sedimentary deposits settled in lakes are called _____.

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

13. 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

14. 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

15. 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

16. What is the name of the layer of soil just under the grass?

- a) topsoil b) subsoil c) bedrock d) parent rock

17. After digging deeper and deeper, you would eventually hit solid (unweathered) rock, called ____

- a) Humus b) organic material c) subsoil d) bedrock

18. Which soils are usually free of lime and so are very sour?

- a) Laterite Soils b) Peat soil c) Black soil d) Alluvial

19. Formation of soil is known as?

- a) Pedogenesis b) Anthropogenic c) Regoliths d) Mycorrhizal

20. The mixing of the soil by the activities of animals is known as?

- a) Anthropogenic b) Regoliths c) Mycorrhizal d) Pedoturbation

21. Alluvium soil is later divided into how many parts?

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

22. 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

23. Black soils are derived from how many types of rocks?

- a) 5 b) 4 c) 2 d) 3

24. Laterite and Lateritic Soils are suitable for the growth of?

- a) Tea b) Coconut c) Rubber d) All the above

25. In how many groups Indian soil is divided?

- a) 7 b) 8 c) 6 d) 9

26. Indian soils can broadly be divided into how many types?

- a) 2 b) 3 c) 4 d) 5

27. Tamil Nadu has which type of soil?

- a) Laterite Soils b) Red soil c) Black soil d) Alluvial

28. 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

29. Which type of soil is found in Andhra Pradesh and Karnataka?

- a) Saline b) Alkaline Soils c) Black d) Both a & b

30. 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

31. Which of the following are the primary causes of water pollution?

- a) Plants b) Animals c) Human activities d) None of these

32. 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

33. 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

34. 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

35. 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

36. Chlorofluorocarbon are nonflammable chemicals mainly used in .

- a) Perfumes b) Refrigerators c) Air conditioners d) All of the above

37. 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

38. What is the health effects of excess fluoride in drinking water?

- a) Fluorosis b) Toothaches c) Lung disease d) Intestinal infection

39. Which of the following techniques is used to remove fluorides from the water bodies?

- a) Osmosis b) Ion exchange c) Lime softening d) Both b and c

40. Which of the following is a waterborne disease?

- a) Typhoid b) Cholera c) Diarrhoea d) All of the above

41. The main sources of Arsenic in water are .

- a) Floods b) Fertilizers c) Industrial waste d) Both b and c

42. 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

43. 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

44. 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

45. Which of the following salts are the main causes of temporary hardness?

- a) Calcium sulphate b) Magnesium sulphate c) Magnesium chloride d) Magnesium carbonate

46. 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

47. 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
48. 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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49. Which of the following is not a waterborne disease?
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57. 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
58. Aqueducts are generally designed
 a) circular b) Rectangular c) Horse shoe section d) All of the above
59. Water losses in water supply, is assumed as
 a) 5% b) 7.5% c) 10% d) 15%
60. The requirement of water per capita per day, is
 a) 90 litres b) 120 litres c) 150 litres d) 400 litres

Name - Nandini

41/60

K. R. E. SOCIETY'S
KARNATAK ARTS, SCIENCE & COMMERCE COLLEGE, BIDAR
Add-on Course Examination - 2020-21
Paper; - Soil and Water Analysis

Time- 1 Hour

Maximum marks - 60

1. Earth's body of soil is known as?
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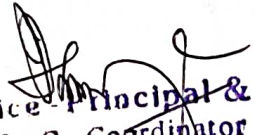
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 a) Calcium sulphate b) Magnesium sulphate c) Magnesium chloride (d) Magnesium carbonate
46. According to the Geological survey, water with less than 1000 ml/litre of total dissolved solids is
 a) Brine water (b) Freshwater c) Slightly saline d) Moderately saline

47. 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
48. Which of the following units is used for measuring the turbidity of water?
a) EAU Formazin Attenuation Units b) FNU- Formazin Nephelometric Unit
c) NTU - Nephelometric Turbidity Units d) All of the above
49. Which of the following is not a waterborne disease?
a) Measles b) Typhoid c) Cholera d) Hepatitis
50. The maximum permitted loss of head in a rapid sand filter, is
a) 1m b) 2m c) 3m d) 4m
51. The nitrate concentration in domestic water supplies, is generally limited to.
a) 10ppm b) 15ppm c) 30ppm d) 45ppm
52. Carbonates in water produce.
a) Temporary hardness b) Permanent hardness c) Acidity d) Alkalinity
53. Ground water from artesian wells.
a) Contains no suspended materials b) Contains dissolved salts
c) may be saltish and hard d) All the above
54. Alum is a.
a) coagulant b) Flocculent c) Catalyst d) Disinfectant
55. 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
56. 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
57. 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
58. Aqueducts are generally designed
a) circular b) Rectangular c) Horse shoe section d) All of the above
59. Water losses in water supply, is assumed as
a) 5% b) 7.5% c) 10% d) 15%
60. The requirement of water per capita per day, is
a) 90 litres b) 120 litres c) 150 litres d) 400 litres

Theory Key Answers : 2020-21

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


Vice-Principal &
I.Q.C. Coordinator
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

External Marks List 2020 - 2021

Sl.No	Name of the student	Marks
1	Nandini S	41
2	Vaishnavi M	30
3	Hema A Sagar	52
4	Neelavati D	46
5	Sushma A	47
6	Apoorva R	50
7	Swati Yanagunde	46
8	Ashwini Basavaraj	46
9	Pallavi Chickbase	45
10	Aishwarya R	44
11	Kavya S	43
12	Monika S	40
13	Tirveni B	42
14	Kanchan sajjan	42
15	Pooja Patil	40
16	Omer Farooq	40
17	Renuka S	43
18	Usha Manjunath	40
19	Soumya S	49
20	Aishwarya C	47
21	G Moksha M	43
22	Maliha Muskan	44
23	Kartika Jadav	42
24	Angelin Kote	42
25	Pallavi Rajkumar	40

Candidates present - 25

Candidates absent - 00

Total - 25


Invigilator



Karnatak Arts, Science & Commerce College, Bidar

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Department of Chemistry

Add on course On Soil & Water Testing

Marks List 2020 – 2021

Sl.No	Name of the student	Internal Marks (40)	External Marks (60)	Total (100)
1	Nandini S	38	41	79
2	Vaishnavi M	36	30	66
3	Hema A Sagar	28	52	80
4	Neelavati D	30	46	76
5	Sushma A	28	47	75
6	Apoorva R	30	50	80
7	Swati Yanagunde	30	46	76
8	Ashwini Basavaraj	30	46	76
9	Pallavi Chickbase	34	45	79
10	Aishwarya R	34	44	78
11	Kavya S	32	43	75
12	Monika S	26	40	66
13	Tirveni B	30	42	72
14	Kanchan sajjan	32	42	74
15	Pooja Patil	22	40	62
16	Omer Farooq	26	40	66
17	Renuka S	26	43	69
18	Usha Manjunath	26	40	66
19	Soumya S	28	49	77
20	Aishwarya C	30	47	77
21	G Moksha M	34	43	77
22	Maliha Muskan	28	44	72
23	Kartika Jadav	36	42	78
24	Angelin Kote	32	42	74
25	Pallavi Rajkumar	30	40	70


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


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Commerce College, BIDAR

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

“Add on Course” on Soil and Water testing

2020 - 2021

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. Students will have supervised, hands-on work experience related to crop production . 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

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


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