

“ज्ञान, विज्ञान आणि सुरंरकार यासाठी शिक्षणप्रसार”
शिक्षणमहर्षि डॉ. सापूजी सालुंके

SHRI SWAMI VIVEKANANDA SHIKSHAN SANSTHA, KOLHAPUR'S

**Padmbhushan Dr. Vasantodada Patil
Mahavidyala, Tasgaon.**

DEPARTMENT OF ZOOLOGY

**CERTIFICATE COURSE IN “SOIL AND
WATER ANALYSIS”**

2017-2018

Dissemination of Education through Knowledge, Science and Culture"

-Shikshanmaharshi Dr. Bapuji Salunkhe
Shri Swami VivekanandShikshanSanstha's, Kolhapur

Padmbhushan Dr. Vasantodada Patil Mahavidyala, Tasgaon.

Department of Zoology

MEETING FOR SYLLABUS SETTING COMMITTEE (B.O.S.)

The meeting of syllabus setting committee (B.O.S.) will be organized for the syllabus formation of "SOIL AND WATER ANALYSIS" CERTIFICATE COURSE on 10/01/2017. The following member of the committee have to present for the syllabus setting.

Sr. No.	Name of Faculty	Designation	Signature
1	Dr. S.A. Khabade	Chairman	
2	Dr. R.M. Ganeshwade	Member	
3	Dr. P.B. Teli	Member	
4	Mr. V.M. Jadhav	Member	
5	Miss. P.S. Bhandare	Member	
6	Miss. S.V. Pakhare	Member	
7	Miss. K. B. Kumbhar	Member	
8	Miss. C.S. Gavali	Member	
9	Miss. S.S. Jadhav	Member	

Yours faithfully



Course Coordinator

HEAD

DEPARTMENT OF ZOOLOGY,
PADMABHUSHAN DR. VASANTODADA PATIL
MAHAVIDYALAYA, TASGAON, DIST. RAHOLI

“ज्ञान, विज्ञान आणि सुसंस्कार यासाठी शिक्षणप्रसार”

शिक्षणमहर्षि डॉ. सापूजी साळुंखे

Shri Swami Vivekananda Shikshan Sanstha, Kolhapur's
Padmbhushan Dr. Vasantraodada Patil Mahavidyala, Tasgaon.

Department of Zoology

Certificate Course In “Soil And Water Analysis” 2016-2017

To,
The Principal,
P. D.V.P. Mahavidyalaya,
Tasgaon.

Respected sir,

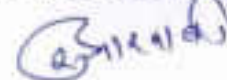
As per your letter (Ref. No.Pdvp:/समक्ष/2017-18 dated 21/1/2017),

herewith I am submitting information of six weeks “**Certificate Course In “Soil And Water Analysis” 2016-2017**” under Department of Zoology .

Kindly accept it.

Thanking You.

Yours Faithfully,



Dr.S.A.Khabade

Co-Ordinator

HEAD

DEPARTMENT OF ZOOLOGY,
PADMABHUSHAN DR. VASANTRAO DADA PATIL
MAHVIDYALAYA, TASGAON, DIST. SANGLI

1) Title of Course: College Oriented Course In

Soil And Water Analysis (2017-18)

2) Is the course affiliated to university -- No

3) Duration of the course : Six weeks

12 January 2017 to 20 February 2017

The course shall be a part time course of six weeks.

4) Eligibility : 10+2, B.Sc., B. Com., B.A., M.Sc., M.Com., M.A.,
Computer Science.

5) MEDIUM OF INSTRUCTION:

The medium of instruction shall be in English.

4) Intake Capacity: All B.Sc. I year students

5) Syllabus of course

Theory Syllabus

College Oriented Course in

SOIL AND WATER ANALYSIS

Unit 1: Introduction to Soil

1.1: Definition, Importance of soil analysis in Agriculture. (1)

1.2: Origin and formation of soil. (1)

1.3: Properties of Soil (4)

a. Physical Properties

b. Chemical Properties

Unit 2: Classification of Soil and Soil types in India (2)

Unit 3: Soil Fertility Factors and Maintenance of soil fertility in relation to Agriculture. (2)

Unit 4: Introduction to Water (9)

4.1: Definition, Importance of water analysis in relation to agriculture, human health and aquatic organisms.

4.2: Properties of Water

- a. Physical Properties
- b. Chemical Properties

Unit 5: Classification of Water (5)

- a. Marine Water
- b. Fresh Water
- c. Brackish Water
- d. Ice

Unit 6: Quality of Natural water and Polluted water with respect to its impact on Agriculture, Domestic use and on aquatic organisms. (4)

Unit 7: Methods of Soil testing and Water Analysis (12)

PRACTICAL SYLLABUS - :

I. SOIL ANALYSIS :

- 1) Collection and preservation
- 2) Analysis of particle size.
- 3) Water holding capacity.
- 4) Temperature.
- 5) pH.
- 6) Alkalinity
- 7) Chlorides.
- 8) Sulphates.
- 9) Organic matter
- 10) Boron.

I. WATER ANALYSIS :

- 1) pH
- 2) Temperature.
- 3) Total Solids (TS).
- 4) Total Dissolved Solids (TDS).
- 5) Total Suspended Solids (TSS).
- 6) Dissolved Oxygen.

- 7) Free Carbon di-oxide.
- 8) Total Alkalinity.
- 9) Hardness.
- 10) Chlorides.
- 11) Residual Chlorine.
- 12) Hydrogen Sulphide.
- 13) MPN of Coliforms.

8) Faculty involved in teaching the course

- 1) Dr. Khabade S.A. (HOD)
- 2) Dr. R.M. Ganeshwade
- 3) Dr. P.B. Teli
- 4) Mr. V.M. Jadhav
- 5) Miss. P.S. Bhandare
- 6) Miss. S.V. Pakhare
- 7) Miss. K. B. Kumbhar
- 8) Miss. C.S. Gavali
- 9) Miss. S.S. Jadhav

9) Time Table:

Day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Time	9.30 to 10.30am	9.30 to 10.30am	8.30 to 10.30am	8.30 to 10.30am	9.30 to 10.30am	9.30 to 10.30am
Faculty	Dr.Khabade S.A.	Dr. R.M. Ganeshwade	Dr. P.B. Teli	Mr. V.M. Jadhav/ Miss. S.S. Jadhav	Miss. P.S. Bhandare/ Miss. C.S. Gavali	Miss. S.V. Pakhare/ Miss. K. B. Kumbhar
	Theory	Theory	Practical	Practical	Theory	Theory

NATURE OF QUESTION PAPER

Duration: 2 Hrs.

Total marks - 50

Q 1: Q.1. Multiple choice questions (10)

Q2: Long answer type Questions (20)
Attempt **ANY One** from the following

Q3: Short Answer type Questions (20)

Attempt **ANY Two** from the following

IMPORTANCE OF COURSE

Soil and Water plays an important role in agriculture, human health and aquatic ecosystems. Presently, increasing population is responsible for pollution of soil and water. The quality of soil and water is declining day by day.

This certificate course is important because of following reasons :

- a. The course will be helpful to encourage the society in preventing soil and water pollution.
- b. Most of the students from Western Maharashtra belongs to agriculture background. This course intends to fulfill the requirement of agriculture within house and also provides solution for the society.
- c. This course gives job opportunities to the students in soil and water testing laboratories.

PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA, TASGAON
(DIST. SANGLI)

CLASS ROOM ATTENDANCE SHEET

Name of the Teacher Miss Bhandare P.S. Subject Zoology
Class B.Sc I Time 12:05 pm - 12:15 pm Date 24/1/2017

Roll No.	Name of Student	Signature	Roll No.	Name of Student	Signature
2762	Miss Snehal chavon	<u>Snehal</u>	2884	Patil Dharmastres P.	<u>Patil</u>
2564	Miss. Bhat Sahika Rajaram	<u>Sahika</u>	2893	Patil Tejaswari M.	<u>Patil</u>
2608	Miss Sudar Pooja Shankar	<u>Sudar</u>	2822	Patil Rohini Rajesh	<u>Patil</u>
2901	Miss Bodake Minal S.	<u>Bodake</u>	2833	Patil Sonali Dilip	<u>Patil</u>
2871	Miss Jadhav Aishwarya	<u>Aishwarya</u>	2835	Patil Sujata Dilip	<u>Sujata</u>
2903	Pandeshi Anati R.	<u>APP</u>	2832	Patil shweta kanchar	<u>Shweta</u>
2595	Patil Pooja D.	<u>Patil</u>	2600	Patil Sneha Ganesh	<u>Patil</u>
2704	Mane Vijwala. B	<u>Mane</u>	2604	Patil Snehal Mahadev	<u>Snehal</u>
2898	shinde kajal .c	<u>shinde</u>	2814	Patil Mayuri Vishnu	<u>Patil</u>
2870	Gurav Anurata uttam	<u>AGU</u>	2845	Purke Pednali Maenti	<u>Purke</u>
2866	Babate Jyoti Maruti	<u>Babate</u>	2855	Swami Paiganta Anur	<u>Swami</u>
2877	Mali vidya .m.	<u>Mali</u>	2870	Jadhav vrushali B.	<u>Jadhav</u>
2785	kolekar Prajakta Mahadev	<u>Kolekar</u>	2569	Jadhav Supriya U.	<u>Jadhav</u>
2886	Patil Gauri Ankush	<u>G.A.Patil</u>	2565	Chavan Prajakta Prabh	<u>Chavan</u>
2818	Patil Prajakta Kashinath	<u>Patik</u>	2591	Patil Anjali S.	<u>A.S.Patil</u>
2763	chavan Snehal Ramesh	<u>Chavan</u>	2586	Mohite shital Jayvant	<u>Mohite</u>
2781	Jamdade Pradnya D.	<u>Jamdade</u>	2587	More Prachita K.	<u>More</u>
2700	Jamdade pooja U.	<u>P.U.Jamdade</u>	2793	Patil jaya Sandipan	<u>Patil</u>
2767	Bhosale Monali P.	<u>MBhosale</u>	2614	Jadhav kavita shiraji	<u>Jadhav</u>
2796	Mhetre Gayatri Gajanan	<u>Mhetre</u>	2846	Sagore Pooja Dilip	<u>Sagore</u>
2779	Jamdade Ananti S.	<u>Jamdade</u>	2799	Mohite sayali Machindramath	<u>Mohite</u>
2918	Chaugule Pooja Vilas	<u>Chaugule</u>	2585	Mohite Nena Motiram	<u>Mohite</u>
2821	Patil Pooja vijay	<u>Patil</u>	2844	Patil Rohini Pradip	<u>Patil</u>
2807	Nalawade Poonam v.	<u>Nalawade</u>	2848	Salunke Sonali N.	<u>Salunke</u>
2831	Patil smita Jagannath	<u>Patil</u>	2615	Jadhav Namrata A.	<u>Jadhav</u>
2806	Nalawade kiran S.	<u>Nalawade</u>	2895	salunke Reshma G.	<u>Salunke</u>
2803	more mayuri .N.	<u>More</u>	2783	kale Rutuja shrikant.	<u>Kale</u>
2916	Nalawade Swarajali S.	<u>Nalawade</u>	2802	Mohale Shuddha vijay	<u>Mohale</u>
2823	Patil Rupali M.	<u>Patil</u>	2861	Yadav Sheya Shahaji	<u>Yadav</u>
2851	shinde Jyoti A	<u>shinde</u>	2612	Valudev Manjari Jayant	<u>Valudev</u>
2784	khosade Monali Subhash	<u>khosade</u>			

[Signature]
Signature of the Teacher
P.T.O. Page No. 2

PADMABHUSHAN DR. VASANTRAO DADA PATIL MAHAVIDYALAYA, TASGAON

(DIST. SANGLI)

CLASS ROOM ATTENDANCE SHEET

Name of the Teacher _____ Subject _____

Class _____ Time _____ Date _____

Roll No.	Name of Student	Signature	Roll No.	Name of Student	Signature
2925	Patil Dhanashri S.	Patil			
2819	Londhe Poornima B.	Londhe			
2859	Wagh Sonali T.	Wagh			
2850	Shendoge Ashwini A.	Shendoge			
2775	Jadhav Laxmi Ajit	Jadhav			
2879	mane smita subhash	mane			
2876	Mali Rupali S	Mali			
2878	Mane Ashwini J.	Mane			
2887	Patil Rohini B.	Patil			
2875	Mali Dipali J.	Mali			
2789	Mali Bhagyashri D.	Mali			
2874	Kale Kalyani S.	Kale			
2889	Patil Sheveta V.	Patil			
2897	Shinde Dipali D	Shinde			
2863	Zambore Anika B.	Zambore			
2827	Patil Seema S.	Patil			
2937	Kamble Snehal H.	Kamble			
2936	Thorat Dipti L	Thorat			
2583	Mohikar Parvati Y.	Mohikar			
2797	Mohikar Amruta M.	Mohikar			
2929	Jadhav Jyotsna Mareni	Jadhav			

Signature of the Teacher _____

PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA, TASGAON

(DIST. SANGLI)

CLASS ROOM ATTENDANCE SHEET

Name of the Teacher Miss Gavali C.S. 8.30-10.30 pm Subject Zoology

Class B.Sc I Time 10.30-12.30 Date 29/11/2017

Roll No.	Name of Student	Signature	Roll No.	Name of Student	Signature
2711 86	Kore Nilesh D.	Kore	2885	Patil Dipak B.	Patil
2769	Dubole Pradip A.	Dubole	2826	Sandhin Ramesh Tendekar	Sandhin
2920	Patil Umesh H.	Patil	7007	Mahendrasing Dhadhi	MSD
2754	Babbar Rushikesh D.	Babbar	8001	Barak Obama	Bo
2790	Mali Gajanan R.	Mali	4004	Kaka	Kaka
2567	Dabe Amit B.	Dabe	7007	Narendra Modi	Nama
2574	Khade Akash S.	Khade	01	Angabhada	Angam
2581	Awate Sunil P.	Awate	908	XPPA Dambiss	Dan
2914	Kadam Karan S.	Kadam	122	Roman Reigns	RA
2699	Patil Rushikesh D.	Patil	2764	Chavan Sumit S.	Chavan
2841	Patil Avinash R.	Patil			
2891	Patil Sourabh D.	Patil			
2848	Patil Santosh T.	Patil			
2869	Gerande A.A.	Gerande			
2755	Bagal Kuladip C.	Bagal			
2804	Shinde Sachin R.	Shinde			
2598	Patil Rushikesh R.	Patil			
2800	Sargavanshi Harshal S.	Sargavanshi			
2881	Nigude Sheerivus J.	Nigude			
2856	Thombaze Pranav V.	Thombaze			
2793	Mane Ashishkumar B.	Mane			
2862	Yadav V. G.	Yadav			
2854	Sutar Abhishek P.	Sutar			
2929	Shubham T. Patil	Shubham			
2801	Mohite Vijay K.	Mohite			
2766	Delhmukesh Sandip A.	Delhmukesh			
2602	Patil Omkar S.	Patil			
2868	Chavan Sushant S.	Chavan			
2872	Jamdade Shubham C.	Jamdade			
2864	Attar Arbij S.	Attar			
2852	Shinde Minu D.	Shinde			

Miss Gavali
29/11/2017

Signature of the Teacher

PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA, TASGAON

(DIST. SANGLI)

CLASS ROOM ATTENDANCE SHEET

Name of the Teacher Dr. Khabade S. A. Subject Zoology.

Class B.Sc III Time 08:05 pm Date 12/2/2017.

Roll No.	Name of Student	Signature	Roll No.	Name of Student	Signature
1.	Mane Sunita Uttam	<u>Sunita</u>			
2	Mali Ashwini A	<u>Mali</u>			
3)	Mali Vaasha Bhauso	<u>Bhauso</u>			
4)	Kadam Nikita Suresh	<u>Kadam</u>			
5)	Thorat Shubhangi Baban.	<u>Thorat</u>			
6)	Mali Rutini Kundlik	<u>Rutini</u>			
7)	Mali Ashwini Ananda	<u>Mali</u>			
8)	Jadhav Geeta Kisan	<u>Geeta</u>			
9)	Jadhav Reshma R	<u>Reshma</u>			
10)	Patil Shubhangi K.	<u>Patil</u>			
11)	Kolekar Krutikalayani K.	<u>Kolekar</u>			
12)	Patil Aarati Ramesh.	<u>Patil</u>			
13)	Halkar Vaishali V.	<u>Halkar</u>			
14)	Gavali Ashwini Kishor	<u>Gavali</u>			
15)	Deshmukh Shobha Shivaji	<u>Deshmukh</u>			
16)	Jadhav Shrutika Dhanaji	<u>Jadhav</u>			
17)	Shende Kajal Anil	<u>Shende</u>			
18)	Shinde Amruta Ramesh	<u>Shinde</u>			
19)	Patil Radhika Gokulrao	<u>Patil</u>			
20)	Pawar Shital Vitthal	<u>Pawar</u>			

S. A. Khabade
S. A. Khabade S. A.

HEAD
DEPARTMENT OF ZOOLOGY
ADMINISTRATIVE OFFICE

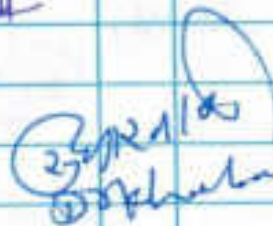
PADMABHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA, TASGAON

(DIST. SANGLI)

CLASS ROOM ATTENDANCE SHEET

Name of the Teacher _____ Subject Zoology
 Class B-SC III Time 08-05 pm - 10:50 pm Date 12-2-2017

Roll No.	Name of Student	Signature	Roll No.	Name of Student	Signature
1.	Mane Sunita Uttam	Sunita			
2	Mali Ashwini Ashok	Ashini			
3)	Mali Vaishali Bhausa	Vaishali			
4)	Kadam Nikita Suresh	Nikadam			
5)	Thorat Shubhangi Baban	Thorat			
6)	Mali Rohini Kamlik	Rohini			
7)	Mali Ashwini Ananda	Amali			
8)	Jadhav Geeta Kisan	Geeta			
9)	Jadhav Reshma R.	Reshma			
10)	Patil Shubhangi K.	Shub			
11)	Kolekar Krutikalyani K.	Kolekar			
12)	Patil Aarati Ramesh	Aarati			
13)	Wakhe Vaishali V.	Wakhe			
14)	Gawali Ashwini Kishor	Ashwini			
15)	Deshmukh Shobha Shivaji	Deshmukh			
16)	Shinde Amruta Ramesh	Shinde			
17)	Shende Kajal Anil	Shende			
18)	Jadhav Shrutika Dhanaji	Jadhav			
19)	Pawar Shital Vitthal	Pawar			
20)	Patil Radhika Gulabrao	Patil			


 Dr. Padma Bhusan Dr. Vasant Rao Patil

SrNo Name Sign.

- 1) Thorat Shubhangi Baban. Thorat.
- 2) Tawdar Aishwarya Yashwant Tawdar.
- 3) Patil Shubhangi Kisan Patil.
- 4) Mali Rohini Kunklik. Mali.
- 5) Jadhav Reshma Rajendra Jadhav.
- 6) Mali Ashwini Ananda Mali.
- 7) Kadam Nikita Suresh
- 8) Mali Varsha Bhausa Mali.
- 9) Mali Ashwini Ashok Mali.
- 10) Kolekar Krutikalyani Kishor Kolekar.
- 11) Jadhav Geeta Kisan Geeta.
- 12) Mane Sunita Uttam Sunita.
- 13) Patil Arati Ramesh Patil.
- 14) Hanke Vaishali Vinayak Hanke.
- 15) Edake Tejaswi Ramesh Edake.
- 16) Govali Ashwini Kishor Govali.
- 16) Deshmukh Shobha Shivaji Deshmukh.
- 17) Shinde Amruta Ramesh Shinde.
- 18) Shende Kajal Anil Shende.
- 19) Jadhav Shrutika Dhanaji Jadhav.
- 20) Patil Saloni Ravindra. Patil.
- 21) Pawar Shital Vitthal Pawar.
- 22) Patil Radhika Gulabrao Patil.
- 23) Patil Smita Uddhav Patil.

TripB

(Dr. P.B. Teli)

1]	K Jishnu Gangadharan	Nipha	<u>Quinn</u>
2]	Jadhav Pratika Pradip		<u>Quinn</u>
3]	Nimbalkar Pratik Yuvraj		<u>Quinn</u>
4]	Mane Vijay Prakash		<u>Quinn</u>
5]	Mali Shubhangi Ashok.		<u>Quinn</u>
6]	Patil Amruta Arjun		<u>Quinn</u>
7]	Ameutsagar Pranali Babasa		<u>Quinn</u>
8]	Patil Supriya Sudam		<u>Quinn</u>
9]	Lokhande Pallavi Jayawant		<u>Quinn</u>
10]	Kumbhar Anuradha Somnath		<u>Quinn</u>
11]	Ameutsagar Pranali Rajendra		<u>Quinn</u>
12]	Mujawar Noorjahan Nojia.	TB	N.N.Mujawar
13]	Mulla Sana Dilawar.	Cancer.	<u>Smulla</u>
14]	Mali Pooja Rajaram	Chicke pox	<u>Pranali</u>
15]	Kharamate Snehal Satish		<u>Shobha</u>
16]	Salunkhe prajakta Shamkumar		<u>Salunkhe</u>
17]	Mulani Masum Rajekhan		<u>Mulani</u>
18]	Kamble Pratima Dilip		<u>Pratima</u>
19]	Jadhav Sushant Jalinder		<u>Jadhav</u>
20]	Rajput Shubham Sanjay		<u>Rajput</u>
21]	Bhusale Avinash Raghu	Rabies Bena	Asimov
22]	Pawar Pravin Pratap	E-bola	<u>Pawar</u>
23]	Patil Yogesh Lalaso		<u>Patil</u>

Pakhare
22/2/2017

F.Y.

B₁ batch Miss. S.S. Jadhav

Date 27 / 01 / 2017

Page No.:

- | | | | |
|-----|---------------------------|------|----------------|
| 1] | Shinde Kalyani Sanjay | 5094 | Shinde |
| 2) | Shendage Pratibha Ashok | 5094 | Shendage |
| 3] | Shendage Ankita Tukaram | 5093 | Shendage |
| 4] | Shendage Rupali Balaso | 5095 | (Shendage) |
| 5] | Patole Jayali Ramchandra | 5087 | Patole |
| 6] | KADAM SHRADHA SATISH | 5071 | Shradha |
| 7] | Kulkarni Vaishnavi Suresh | 5075 | Kulkarni |
| 8] | Mali Sakshi Milind | 5080 | Mali |
| 9] | Dombe Aishwarya Nilkanth | 5062 | A.N. Dombe |
| 10] | Bhosale Rani Hindurao | 5059 | Bhosale |
| 11] | Mali Ashwini Ramchandra | 5077 | Mali |
| 12] | Patil Kirti Suresh | 5085 | Patil |
| 13] | Graikarad Poonam Shankar | 5065 | P.S. Graikarad |
| 14] | Mohite Amruta Manik | 5082 | Mohite |
| 15] | Khupkar Priyanka Lahu | 5073 | Khupkar |
| 16] | Mali Peanali Balaso | 5079 | Mali |
| 17] | Jadhav Bhagyashri Bhaskar | 5068 | Jadhav |
| 18] | Giri Kavita Sanjay | 5067 | K.S. Giri |

S.S. Jadhav

F.Y. B. batch

Roll.No.	Name	Sign	Sign
1) 5066	Ghulukade Shankar Harib		<u>Shankar</u>
2) 5074	Kulkade vicky suresh		<u>vicky</u>
3) 5060	Chavan Aniket Rajesh		<u>Aniket</u>
4) 5081	Mane Avinraj Sanjay		<u>Mane</u>
5) 5090	Rankhambhe Shubham Peadip		<u>Rankhambhe</u>
6) 5089	Pol Bhushan Anil		<u>Bhushan</u>
7) 5096	Shinde Ajinkya vasant		<u>shinde</u>
8) 5098	Thorwat Aniket Sanjay		<u>A.S. Thorwat</u>
9) 5083	More Omkar Dinkar		<u>More</u>
10) 5086	Patil Rutuja Tanaji		<u>Patil</u>
11) 5069	Jadhav Namrata uddhav		<u>Namrata</u>
12) 5092	Sayyad Alisha Hamid		<u>Alisha</u>
13) 5076	Madane Komal sanjay		<u>Komal</u>
14) 5084	Nalavade Pooja Tanaji		<u>Nalavade</u>
15) 5088	Pawar Shradha Balasaheb		<u>Pawar</u>
16) 5064	Frandole Shubhangi Mahadev		<u>Shubhangi</u>

@S1517

"ज्ञान, विज्ञान आणि सुसंस्कार यासाठी शिक्षणप्रसार"

शिक्षणमहर्षि डॉ. बापूजी साळुंखे

Shri Swami Vivekananda Shikshan Sanstha, Kolhapur's
Padmbhushan Dr. Vasantaoada Patil Mahavidyala, Tasgaon.

Department of Zoology

Teacher Name - V.M. Jadhavi

02-02-2017

Sr. No.	Roll No.	Students Name	Signature
	4082	Mohite Shital Jaysing	Mohite
	4081	Shraddha Vijay Mokale	Mokale
	4080	Vijay Kisan Mohite	Mohite
	4079	Pranali Yashvatik Mohite	Mohite
	4078	Abhijit Rajaram Mohite	Mohite
	4213	Aniket Jaysing Mane	Mane
	4214	Mane Aniket Vinayak	Mane
	4209	Rutuja Shrikant Kale	Kale
	4210	Apeksha Suresh Kambale	Kambale
	4205	Swafnali Sanjay Jadhav	Jadhav
	4206	Utkarsha Narayan Jadhav	Jadhav
	4201	Aishwarya Vishwas Jadhav	A.V. Jo
	4202	Dhanashree Sambhaji Jadhav	Jadhav
	4199	Nilesh Dilipkumar Hantare	Nh
	4200		

V.M. Jadhavi
2-2-2017

4200	komal Jagannath hatikar	Hatikar
4203	Rahul Ravsaheb Jadhav	Jadhav
4204	shehal Balaso Jadhav	she_snehalk
4207	Re Pooja uttam Jamdade	P.U. Jamdade
4208	reshma Bhandudas Kadam	Kadam R.B
4211	Rohit Shivaji Koli	Kolikar
4212	Dhanashree Uday R. Mali	D. Mali
4215	Ashishkumar Balasaheb More	More A.B
4216.	Amruta Manohar Mohikar	Mohikar A.M
4219	Sayali Macindranath Mohite	S.M.M.
4220	swaphali Nivas Mohite	Mohitesw
4221	vijay kisan mohite	V.K.M
4112	Tajoti Masuti Bhosale	M. Bhosale
4109	Rameshwari Satikar Thorat	R.S Thorat
4111	Shreya Shahuji Yadav	S. Yadav
4113	MAYUKI Manik Bhusale	M.M.B
4114	MAYUKI Jayant Vasudev	M. Vasudev
4115	Amruta Uttam Gukar	Amruta
4116	Dipali Jayawant mali	D. mali
4118	Rohini Bajarang Patil	R. Patil
4119	Shweta Nishru Patil	Shweta
4121	Nikita Bhalchandra Sakale	N.B. Sakale
4117	Rupali Shivaji mali	R. mali

Dissemination of Education through Knowledge, Science and Culture"
-Shikshanmaharshi Dr. Bapuji Salunkhe
Shri Swami VivekanandShikshanSanstha's, Kolhapur

Padmbhushan Dr. Vasantrodada Patil Mahavidyala, Tasgaon,

DEPARTMENT OF ZOOLOGY

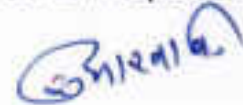
YEAR 2017-18

Notice

18/02/2017

All the **B.Sc I** students of Zoology department are here by informed that the exam based on "Soli and Water Analysis" will held on 20/ 02/2017 at 5:00 PM. The attendance should be compulsory.

Head of Department



(Dr.S.A.Khabade)

HEAD
DEPARTMENT OF ZOOLOGY,
PADMBHUSHAN DR. VASANTRODADA PATIL
MAHAVIDYALAYA, TASGAON, DIST. BARGODA

SHIVAJI UNIVERSITY, KOLHAPUR

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's
Padmabhushan Dr. Vasantodada Patil Mahavidyalaya, Tasgaon.
Certificate Course on Soil and Water Analysis
Dept. of Zoology

Date- 20/02 /2017

Marks-50

.....
Q.1. Multiple choice questions **10**

1. Out of the total land area, how many million hectares of land suffer from degradation.
a. 150 b. 175 c. 200 d. 225
2. The rate of soil erosion is faster in.....
a. Plains b. Mountains c. Valley d. plateau
3. Temporary hardness is caused due to.....
a. Magnesium carbonate b. Calcium sulphate c. Magnesium sulphate d. Magnesium Chloride
4. Quantity of soil to be taken for texture analysis....
a. 10g b. 20g c. 30g d. 40g
5. Most of the soil organisms are.....
a. Psychrophiles b. Mesophiles c. Thermophiles d. all of the above

Q. 3. Long answer questions (Any Two) **(20)**

1. Describe the classification of water?
2. Methods of soil analysis?

Q. 2. Short answer questions (Any One) **(20)**

1. Methods of soil testing?
2. Describe soil fertility factors?
3. Describe the Physical and Chemical Properties of Water

45
50

@

108

Roll No - 2866

Babar Jyoti M.

class - B.sc I

20/02/2017.

Q. 2. Multiple choice questions. 2

1. out of the total land area, how many million hectares of land suffer from degradation.

2 → (b) 175

2. The rate of soil erosion is faster in —

2 → (b) Mountains.

3. Temporary hardness is caused due to —

0 → (c) Magnesium sulphate

(4) quantity of soil to be taken for texture analysis.....

2 → (b) 20g.

Ques. Describe the classification of water.

→ a water are classified comes in many forms, but the three are as follows.

- i) Marine water.
- ii) Fresh water.
- iii) Brackish water.

These are described as follows.

① Marine water -

Marine ecosystem are the largest of Earth's aquatic ecosystem and are distinguished by water that have a high salt content.

These system contrast with freshwater ecosystem which have a lower salt content.

Marine waters cover more than 70% of the surface of the Earth and account for more than 97% of earth's water supply & 90% of habitable space on Earth.

Marine ecosystems include nearshore systems, such as the salt marshes, Rocky intertidal system and coral reefs.

They also extend outward from the coast to include of shore systems.

Such as the surface ocean, pelagic ocean waters, the deep sea, oceanic hydrothermal vents, & the sea floor.

Marine ecosystems are characterized by the biological community of organisms that they are associated with & their physical environment.

② Fresh water -

Fresh water is any naturally occurring water containing low concentrations of dissolved salts & other total dissolved solids.

Though the term specifically excludes seawater & brackish water.

It does include non-salty mineral rich water such as chalybeate springs.

Fresh water may include water in ice sheets, ice caps, glaciers, icebergs, bogs, ponds, lakes, rainfall, rivers, streams & groundwater, contained in underground aquifers.

Water is critical to the survival of all living organisms.

Many organisms can thrive on salt water but the great majority of higher plants & most mammals need fresh water to live.

Fresh water is not always potable water, that is water safe to drink.

Much of the earth's fresh water (on the surface & groundwater) is to a substantial degree unsuitable for human consumption without some treatment.

Fresh water can easily become polluted by human activities or due to naturally occurring processes such as erosion.

Fresh water is a renewable & variable, but finite natural resource.

Fresh water can only be replenished through the process of the water cycle, in which water from seas, lakes, forests, land, rivers & reservoirs evaporates, forms clouds & returns as precipitation.

Society however, if more fresh water is consumed through human activities than is naturally restored.

this may result in reduced fresh water availability from surface & underground sources & can cause serious damage to surrounding & associated environments.

Water pollution & subsequent eutrophication also reduces the availability of fresh water.

② Brackish water.

- Brackish water is a broad term used to describe water that is more saline than freshwater but less saline than true marine environments.
- often these are transitional areas between fresh & marine water.
- An estuary which is the part of a river that meets the sea, is the best known example of brackish water.

Que. Methods of Soil Analysis.

Methods of Soil Analysis - A summary of some of the many methods of Soil analysis.

- ① Preparation of Soil Sample.
- ② Analytical Methods
- ③ Sulphate Compounds
- ④ Nitrogenous Compounds
- ⑤ Cyanide Compounds
- ⑥ Organic Compounds
- ⑦ High performance liquid Chromatography

- ① Preparation of Soil Sample -

This is an absolutely critical step & tend to be overlooked in a review of methods, but if the preparation is not carefully done, then no amount of sophisticated instrumentation will improve the result.

- ② Analytical Method -

Calibration -

All analytical instruments require Calibration & this is usually performed by preparing a range of standards at increasing concentration putting these through the instrument which will then construct a calibration curves or Graph.

Inorganic compound -

Anions -

Metals -

③ Sulphate Compound -

There are several forms of sulphur compounds and these have differing levels of importance in environmental analysis.

- Total sulphur can be measured using an induction furnace, but as sulphur can exist in many forms, it will not give much information regarding risks on site.

Total sulphides can be analysed by acid digestion & ICP, but many of these are insoluble & relatively inert so do not constitute an environmental hazard.

④ Nitrogenous Compound -

The interrelationship of nitrogen compounds can be confusing & these are defined as follows -
 - Nitrate & nitrite (total oxidised nitrogen)
 these will be analysed on a 2:1 water extract of the soil by colourimetric spectroscopy

⑤ Cyanide Compounds -

- free cyanide represents simple cyanide salts such as potassium cyanide
 These are very water soluble & extremely toxic and are measured by a water extraction, followed by a specific automated distillation / colorimetric analysis such as a Skalar.

- ⑥ Organic Methods -
Chromatography is the separation of a complex mixture by the use of partitioning between a stationary phase (the column) & the mobile phase (a liquid or gas)
- These are commonly based on some form of chromatography with the usual methods
- HPLC
 - GC/FID
 - GC/MS

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 Padmabhushan Dr. Vasantodada Patil Mahavidyalaya, Tasgaon.
 Certificate Course on Soli and Water Analysis
 Dept. of Zoology

MARK LIST

Sr.No.	Roll No.	Students Name	Marks
1	2565	Chavan Prajakta Prakash	45
2	2569	Jadhav Supriya U.	46
3	2600	Patil Sneha Ganesh	42
4	2601	Patil Snehal Mahadev	43
5	2762	Chavan Snehal	41
6	2564	Bhat sarika Rajaram	40
7	2901	Bodake Minal S.	39
8	2871	Patil Pooja D.	36
9	2903	Pardeshi arti R.	35
10	2794	Mane Ujjawala B.	43
11	2898	Shinde Kajal C.	41
12	2870	Gurav Amruta Uttam	42
13	2884	Patil Dhanashree P.	42
14	2866	Baber Jyoti M.	48
15	2877	Mali Vidya M.	45
16	2785	Kolekar Prajakta M.	47
17	2886	Patil Gauri A.	46
18	2818	Patil Prajakta K.	44
19	2781	Jamadade Pradnya D.	44
20	2780	Jamadade Pooja U.	39
21	2757	Bhosale Monali P.	38
22	2796	MhetreGayatri G.	37
23	2779	Jamadade Anjali S.	40
24	2918	Chougule Pooja V.	41
25	2821	Patil Pooja V	42
26	2807	Nalawade Poonam V.	41
27	2831	Patil Smita J.	39
28	2806	Nalawade Kiran S.	39

29	2803	More Mayuri N.	38
30	2916	Nalawade Swaranjali S.	36
31	2823	Patil Rupali M.	37
32	2851	Shinde Jyoti A.	39
33	2895	Salunkhe Reshma G.	39
34	2846	Sagare Pooja Dilip	42
35	2879	Mane Smita Subhash	42
36	2876	Mali Rupali S.	43
37	2570	Jadhav Vrushali B.	43
38	2814	Patil Mayuri V.	44
39	2835	Patil Sujata D.	47
40	2586	Mohite Shital J.	40

25/11/20
Dr. Khabade S. A.
HEAD
DEPARTMENT OF ZOOLOGY,
PADMASHUKHAK DR. VASANTRAO DADA PATIL
MEMORIAL HALL, TASSADON, DIST. SANGLI

Zoology Certificate Course 2017-18

“Soil and Water Analysis”

Student Entrollment List

Sr.No	Roll No.	Name of the Students	Sign
	4301	BHANDARE SANJAY VISHWAS	<i>Bsanjay</i>
2	4302	CHAVAN ASAVARI VIJAY	<i>C. Asavari</i>
3	4303	CHAVAN ASHWINI ASHOK	<i>Ashwini Chavan</i>
4	4304	CHAVAN PRABHAVATI BHAUSO	<i>Prabhavati C.</i>
5	4305	DAGADE AISHWARYA SANJAY	<i>Aishwarya N. Dagade</i>
6	4306	JADHAV HARSHADA NARAYAN	<i>Harshada Jadhav</i>
7	4307	JADHAV MONIKA HIMMAT	<i>Jadhav Monika</i>
8	4308	JADHAV YOGITA ASHOK	<i>Y. A. Jadhav</i>
9	4309	KALE PRIYANKA SHRIKANT	<i>Priyanka S.</i>
10	4310	KAMBLE KISHOR VILAS	<i>K. V. Kamble</i>
11	4311	MANDALE DINESH MARUTI	<i>M. D.</i>
12	4312	MANE SNEHAL SANJAY	<i>S. A. Mane</i>
13	4313	MOHITE PRANAOTI SANJAY	<i>P. S. Mohite</i>
14	4314	NIKAM PRIYANKA MADHUKAR	<i>P. M. Nikam</i>
15	4315	PAKHARE SHITAL SURESH	<i>S. S. Pakhre</i>
16	4316	PATIL PALLAVI TANAJI	<i>P. A. Patil</i>
17	4317	PATIL POONAM RAMCHANDRA	<i>P. R. Patil</i>
18	4318	PAWAR PRAJAKTA MANIK	<i>P. M. Pawar</i>
19	4319	SALUNKHE TUSHAR BALASO	<i>T. B. Salunkhe</i>
20	4320	SAWANT PRATIK RAJENDRA	<i>P. R. Sawant</i>
21	4321	SHINDE PAVAN SURESH	<i>P. S. Shinde</i>

22	4322	SURYAWANSHI PRIYANKA LAXMAN	<u>SPL</u>
23	4323	YADAV SONAL HANMANT	<u>Monali</u>
24	4704	SHINDE BHAGYASHREE VISHNU	<u>B.V. Shinde</u>
25	4101	PATIL TEJASHREE MANOHAR	<u>T.M. Patil</u>
26	4102	POL ROHINI PRADIP	<u>Pol Rohini</u>
27	4103	SHENDAGE ASHWINI ANANDRAO	<u>AS</u>
28	4104	SHENDAGE PRAJAKTA JAGANNATH	<u>P.J. Shendage</u>
29	4105	SHINDE DIPALI DILIPKUMAR	<u>D. Shinde</u>
30	4106	SHINDE JYOTI ARJUN	<u>J.A. Shinde</u>
31	4107	SUTAR JYOTI SUBHASH	<u>JS</u>
32	4108	SUTAR POOJA SHANKAR	<u>P.S. Sutar</u>
33	4109	THORAT RAMESHWATI SARJERAO	<u>B. Thorat</u>
34	4110	VASUDEV MAYURI JAYANT	<u>M.J. Vasudev</u>
35	4111	YADAV SHREYA SHAHAJI	<u>S.S. Yadav</u>
36	4112	BABAR JYOTI MARUTI	<u>JMBabar</u>
37	4113	BHOSALE MAYURI MANIK	<u>MBhosale</u>
38	4114	BOBADE ROHINI SANJAY	<u>R. Bobade</u>
39	4115	GURAV AMRUTA UTTAM	<u>A. Gurav</u>
40	4116	MALI DIPALI JAYAWANT	<u>D.J. Mali</u>
41	4117	MALI RUPALI SHIVAJI	<u>R. Mali</u>
42	4118	PATIL ROHINI BAJARANG	<u>R.B. Patil</u>
43	4119	PATIL SHWETA VISHNU	<u>SPatil</u>
44	4120	SADAKALE BHAGYASHRI GORAKHNATH	<u>B.G. Sadakale</u>
45	4121	SAKALE NIKITA BHALCHANDRA	<u>N.B. Sakale</u>
46	4187	BABAR RUSHIKESH DILIP	<u>R.D. Babar</u>
47	4188	BANSODE PRADNYA ARUN	<u>P. Bansode</u>
48	4189	BHOSALE MONALI POPAT	<u>Bhosale.M</u>
49	4190	BHOSALE SAHEBRAO DAGDU	<u>S.D. Bhosale</u>

50	4191	BODAKE MINOL SHANKAR	M.S. Bodake
51	4192	CHAVAN OMKAR SUNIL	G.O.S
52	4193	CHAVAN YOGESH BALASAHEB	YBChavan
53	4194	DAMATE PRANALI SHAIENDRA	P.S. Damate
54	4195	DUBOLE PRADIP ASHOK	P.Dubole
55	4196	GHADAGE ARATI RAJENDRA	AR.Ghadage
56	4197	GHAODAKE AMAR VIJAYKUMAR	A.V. Ghodake
57	4198	GORAD YOGESHWARI PRAKASH	Y.Kentash
58	4199	HANKARE NILESH DILIPKUMAR	N.D. Hankare
59	4200	HATITKAR KOMAL JAGANNATH	K.Hatitkar
60	4201	JADHAV AISHWARYA VISHWAS	V.Vishwas
61	4202	JADHAV DHANASHREE SAMBHAJI	D.S. Jadhav
62	4203	JADHAV RAHUL RAVSAHEB	R.Jadhav
63	4204	JADHAV SNEHAL BALASO	Jadhav, S. Balaso
64	4205	JADHAV SWAPNALI SANJAY	S.S. Jadhav
65	4206	JADHAV UTKARSHA NARAYAN	Utkarsh
66	4207	JAMDAD Pooja Uttam	P.U. Jamdade
67	4208	KADAM RESHMA BHANUDAS	R.B. Kadam
68	4209	KALE RUTUJA SHRIKANT	R.S. Kale
69	4210	KAMBLE APEKSHA SURESH	Kambale-A.
70	4211	KOLI ROHIT SHIVAJI	R.Koli
71	4212	MALI DHANASHREE UDAY	D.U. Mali
72	4213	MANE ANIKET JAYSING	A.Mane
73	4214	MANE ANIKET VINAYAK	A.Mane
74	4215	MANE ASHISHKUMAR BALASAHEB	A.B. Mane
75	4216	MOHIKAR AMRUTA MANOHAR	M.Amruta
76	4217	MOHIKAR PRANALI YASHWANT	P.M.

77	4218	MOHITE ABHIJIT RAJARAM	A Mohite
78	4219	MOHITE SAYALI MACHINDRANATH	Am. Mohite
79	4220	MOHITE SWAPNIL NIWAS	Swapnil
80	4221	MOHITE VIJAY KISAN	V. Mohite
81	4222	MOKALE SHRADDHA VIJAY	S. Mokale
82	4223	MORE MAYURI NANDKUMAR	More. M.
83	4224	NALAWADE POONAM VITTHAL	N. P. V
84	4225	NIKAM SOMNATH SAMPAT	S. S. Nikam
85	4226	PATIL ANJALI SHASHIKANT	Patil A.
86	4227	PATIL DHANASHRI PRAKASH	Dhanashri
87	4228	PATIL DHANASHRI SHIVAJI	P. D. S
88	4229	PATIL INDRAJIT SADASHIV	I. S. Patil
89	4230	PATIL MANDAR BHASKAR	M. B. Patil
90	4231	PATIL MAYURI VISHNU	M. Patil
91	4232	PATIL NEHA RAJENDRA	Patil. N.
92	4233	PATIL NISHA MAHADEV	Nisha. Patil
93	4234	PATIL ONKAR LAXMAN	Onkar
94	4235	PATIL PALLAVI NANASO	Patil P.
95	4236	PATIL PAVAN RAOSAHEB	P. P. Patil
96	4237	PATIL PRAJAKTA KASHINATH	P. Patil
97	4238	PATIL PREM SAMPAT	P. Patil
98	4239	PATIL PRIYANKA MOHAN	P. M. Patil
99	4240	PATIL PUJA VIJAY	Puja
100	4241	PATIL RAVINA RAMCHANDRA	R. Patil
102	4242	PATIL RUPALI MALOJI	Rupali
102	4243	PATIL RUSHIKESH DILIP	Rushikesh
103	4244	PATIL SANDEEP ASHOK	S. A. Patil

104	4245	PATIL SEEMA SARJERAO	S.patil
105	4246	PATIL SHRIKANT DHONDIRAM	S.patil
106	4247	PATIL SHWETA KANCHAN	S.K.Patil
107	4248	PATIL SNEHAL ANKUSH	Snehal
108	4249	PATIL SONALI DILIP	Sonali.P.
109	4250	PATIL SOURABH PARADIP	S.P. Patil

S. Patil

HEAD

DEPARTMENT OF ZOOLOGY,
PADMABHUSHAN DR. VASANTHAO DADA WTI
MAHARAJALAYA, TAGGAON, DIST. SANGLI

Zoology Certificate Course 2017-18

"Soil and Water Analysis"

Exam Attendance

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30	4106	SHINDE JYOTI ARJUN	J. A. Shinde
31	4107	SUTAR JYOTI SUBHASH	Jes
32	4108	SUTAR POOJA SHANKAR	P. S. Sutar
33	4109	THORAT RAMESHWATI SARJERAO	Thorat
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62	4203	JADHAV RAHUL RAVSAHEB	R. Jadhav
63	4204	JADHAV SNEHAL BALASO	Jadhav S. Balaso
64	4205	JADHAV SWAPNALI SANJAY	S. Jadhav
65	4206	JADHAV UTKARSHA NARAYAN	U. Utkarsh
66	4207	JAMDADE POOJA UTTAM	P.U. Jamdade
67	4208	KADAM RESHMA BHANUDAS	R.B. Kadam
68	4209	KALE RUTUJA SHRIKANT	R.S. Kale
69	4210	KAMBLE APEKSHA SURESH	K. Ambale
70	4211	KOLI ROHIT SHIVAJI	R. Koli
71	4212	MALI DHANASHREE UDAY	D.U. Mali
72	4213	MANE ANIKET JAYSING	A. Mane
73	4214	MANE ANIKET VINAYAK	A. Mane
74	4215	MANE ASHISHKUMAR BALASAHEB	A.B. Mane
75	4216	MOHIKAR AMRUTA MANOHAR	M. Amruta
76	4217	MOHIKAR PRANALI YASHWANT	P. Mohikar

77	4218	MOHITE ABHIJIT RAJARAM	Amohite
78	4219	MOHITE SAYALI MACHINDRANATH	Am.Mohite
79	4220	MOHITE SWAPNIL NIWAS	Swapnil
80	4221	MOHITE VIJAY KISAN	Amohite
81	4222	MOKALE SHRADDHA VIJAY	Mokale
82	4223	MORE MAYURI NANDKUMAR	More.M.
83	4224	NALAWADE POONAM VITTHAL	N.P.V
84	4225	NIKAM SOMNATH SAMPAT	S.S.Nikam
85	4226	PATIL ANJALI SHASHIKANT	Patil.A.
86	4227	PATIL DHANASHRI PRAKASH	Dhanashei
87	4228	PATIL DHANASHRI SHIVAJI	P.D.S
88	4229	PATIL INDRAJIT SADASHIV	I.S.Patil
89	4230	PATIL MANDAR BHASKAR	M.B.Patil
90	4231	PATIL MAYURI VISHNU	M.Patil
91	4232	PATIL NEHA RAJENDRA	Patil.N.
92	4233	PATIL NISHA MAHADEV	NishaPatil
93	4234	PATIL ONKAR LAXMAN	Onkar
94	4235	PATIL PALLAVI NANASO	PatilP
95	4236	PATIL PAVAN RAOSAHEB	P.R.Patil
96	4237	PATIL PRAJAKTA KASHINATH	Kpatil
97	4238	PATIL PREM SAMPAT	Ppatil
98	4239	PATIL PRIYANKA MOHAN	P.M.Patil
99	4240	PATIL PUJA VIJAY	Puja
100	4241	PATIL RAVINA RAMCHANDRA	R.Patil
102	4242	PATIL RUPALI MALOJI	Patil.R.
102	4243	PATIL RUSHIKESH DILIP	Rushikesh
103	4244	PATIL SANDEEP ASHOK	S.A.Patil

104	4245	PATIL SEEMA SARJERAO	S. Patil
105	4246	PATIL SHRIKANT DHONDIRAM	S. Patil
106	4247	PATIL SHWETA KANCHAN	S.K. Patil
107	4248	PATIL SNEHAL ANKUSH	R. Ankush
108	4249	PATIL SONALI DILIP	Sonali P.
109	4250	PATIL SOURABH PARADIP	S.P. Patil


HEAD
DEPARTMENT OF ZOOLOGY,
PADMA BHUSHAN DR. KESAVRAO BACHA JYU
MAHAVIDYALAYA, TARGAON, DIST. SANGLI

106	4247	PATIL SHWETA KANCHAN	P	P	P	P	P	P	P	P	P	P
107	4248	PATIL SNEHAL ANKUSH	P	P	P	P	P	P	P	P	P	P
108	4249	PATIL SONALI DILIP	P	P	P	P	P	P	P	P	P	P
109	4250	PATIL SOURABH PARADIP	P	P	P	P	P	P	P	P	P	P

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23	4323	YADAV SONAL HANMANT	P	P	P	A	P	P		P	P	P	P
24	4704	SHINDE BHAGYASHREE VISHNU	P	P	P	P	A	P		P	P	P	P
25	4101	PATIL TEJASHREE MANOHAR	P	P	P	P	P	P		P	A	P	P
26	4102	POL ROHINI PRADIP	P	P	P	P	P	P		P	P	P	P
27	4103	SHENDAGE ASHWINI ANANDRAO	P	P	P	P	P	P		P	P	P	P
28	4104	SHENDAGE PRAJAKTA JAGANNATH	P	P	P	P	P	P		P	P	P	P
29	4105	SHINDE DIPALI DILIPKUMAR	P	P	A	P	P	P		P	P	P	P
30	4106	SHINDE JYOTI ARJUN	A	P	P	P	P	P		A	P	P	P
31	4107	SUTAR JYOTI SUBHASH	P	P	P	P	P	P		P	P	P	P
32	4108	SUTAR POOJA SHANKAR	P	P	P	P	P	P		P	P	P	P
33	4109	THORAT RAMESHWATI SARJERAO	A	P	P	P	P	A		P	P	P	P
34	4110	VASUDEV MAYURI JAYANT	P	A	P	P	A	P		P	P	A	P
35	4111	YADAV SHREYA SHAHAJI	P	P	P	P	P	P		P	P	P	A
36	4112	BABAR JYOTI MARUTI	P	P	P	A	P	P		P	P	P	P
37	4113	BHOSALE MAYURI MANIK	P	P	P	P	P	P		P	P	P	P
38	4114	BOBADE ROHINI SANJAY	P	P	P	P	P	P		P	P	P	P
39	4115	GURAV AMRUTA UTTAM	P	P	P	P	P	P		P	P	P	P
40	4116	MALI DIPALI JAYAWANT	P	A	P	P	P	P		P	P	P	P
41	4117	MALI RUPALI SHIVAJI	P	P	P	A	P	P		P	P	P	P
42	4118	PATIL ROHINI BAJARANG	P	P	P	A	P	P		P	P	P	P
43	4119	PATIL SHWETA VISHNU	A	P	P	A	P	P		P	P	P	P
44	4120	SADAKALE BHAGYASHRI GORAKHNATH	P	P	P	P	P	P		P	P	P	P
45	4121	SAKALE NIKITA BHALCHANDRA	P	P	P	P	P	P		P	P	P	P
46	4187	BABAR RUSHIKESH DILIP	P	P	P	P	P	P		A	P	P	P
47	4188	BANSODE PRADNYA ARUN	P	P	P	P	A	P		P	P	P	P
48	4189	BHOSALE MONALI POPAT	P	P	P	P	P	P		P	P	A	P
49	4190	BHOSALE SAHEBRAO DAGDU	P	A	P	P	P	P		P	P	P	P

50	4191	BODAKE MINOL SHANKAR	P	P	P	A	P	P	P	P	P	P
51	4192	CHAVAN OMKAR SUNIL	P	P	P	P	P	P	P	P	P	P
52	4193	CHAVAN YOGESH BALASAHEB	P	P	A	P	P	P	P	P	P	P
53	4194	DAMATE PRANALI SHAIENDRA	P	P	P	P	P	P	P	P	P	P
54	4195	DUBOLE PRADIP ASHOK	P	P	P	P	A	P	P	P	P	P
55	4196	GHADAGE ARATI RAJENDRA	P	A	P	P	A	P	P	P	P	P
56	4197	GHAODAKE AMAR VIJAYKUMAR	P	P	P	P	P	P	P	P	P	P
57	4198	GORAD YOGESHWARI PRAKASH	P	P	P	P	P	P	P	P	P	P
58	4199	HANKARE NILESH DILIPKUMAR	A	P	P	P	P	P	P	P	P	P
59	4200	HATITKAR KOMAL JAGANNATH	P	P	P	P	P	P	P	A	P	P
60	4201	JADHAV AISHWARYA VISHWAS	P	P	P	P	P	A	P	P	P	P
61	4202	JADHAV DHANASHREE SAMBHAJI	P	P	P	P	P	P	P	P	P	P
62	4203	JADHAV RAHUL RAVSAHEB	P	P	A	P	P	P	P	P	P	P
63	4204	JADHAV SNEHAL BALASO	A	P	P	P	P	P	P	P	P	P
64	4205	JADHAV SWAPNALI SANJAY	P	P	A	P	P	P	P	P	P	P
65	4206	JADHAV UTKARSHA NARAYAN	P	P	P	P	P	P	P	P	P	P
66	4207	JAMDADE POOJA UTTAM	P	P	P	P	A	P	P	P	P	P
67	4208	KADAM RESHMA BHANUDAS	P	P	P	P	P	P	P	P	P	P
68	4209	KALE RUTUJA SHRIKANT	P	P	P	P	P	P	P	P	A	P
69	4210	KAMBLE APEKSHA SURESH	P	P	P	P	P	P	P	P	P	P
70	4211	KOLI ROHIT SHIVAJI	A	P	P	P	P	P	P	P	P	P
71	4212	MALI DHANASHREE UDAY	P	P	P	P	P	P	P	P	P	P
72	4213	MANE ANIKET JAYSING	P	P	A	P	P	P	P	P	P	P
73	4214	MANE ANIKET VINAYAK	P	P	P	P	P	P	P	P	P	P
74	4215	MANE ASHISHKUMAR BALASAHEB	P	A	P	P	P	P	P	P	P	P
75	4216	MOHIKAR AMRUTA MANOHAR	P	P	P	P	P	A	P	P	P	P
76	4217	MOHIKAR PRANALI YASHWANT	P	P	P	P	A	P	P	P	P	A

104	4245	PATIL SEEMA SARJERAO	P	A	P	A	P	P	P	P	P	P
105	4246	PATIL SHRIKANT DHONDIRAM	A	P	P	P	P	P	P	P	P	P
106	4247	PATIL SHWETA KANCHAN	P	P	A	P	P	P	P	P	P	P
107	4248	PATIL SNEHAL ANKUSH	P	P	P	P	P	P	P	P	P	P
108	4249	PATIL SONALI DILIP	P	P	P	P	P	P	P	P	P	P
109	4250	PATIL SOURABH PARADIP	P	P	P	P	P	P	P	P	P	P

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106	4247	PATIL SHWETA KANCHAN	P	P	P	P	P	P	P	P	P	P
107	4248	PATIL SNEHAL ANKUSH	P	A	P	A	P	A	P	A	P	P
108	4249	PATIL SONALI DILIP	P	P	P	A	P	P	P	P	P	P
109	4250	PATIL SOURABH PARADIP	P	P	P	P	P	P	P	P	P	P

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