

“Education through self-help is our motto”- Karmaveer

Rayat Shikshan Sanstha's

**Shri. Raosaaheb Ramrao Patil Mahavidyalaya, Savlaj**

**Tal.- Tasgaon, Dist.- Sangli.**

**Academic Year 2021-22**

**Programs  
For  
Advanced and Slow Learners**

**Rayat Shikshan Sanstha's**  
**Shri. Raosaheb Ramrao Patil Mahavidyalaya, Savlaj**  
**Tal.- Tasgaon, Dist.- Sangli.**  
**Department of Chemistry**  
**Academic Year 2021-22**

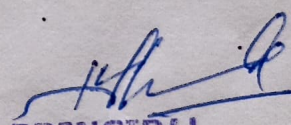
**Goals and Objectives:-**

1. To promote teaching-learning process.
2. To assess student knowledge about course syllabus.
3. To find out slow and advanced learners.
4. To conduct extra lectures.
5. To discuss with students about academic performance.

**Action Plan**

<b>1</b>	<b>To conduct screening test to assess learning levels of students of B.Sc.-I</b>
<b>2</b>	<b>To prepare separate list of Slow and Advanced learners based on result of screening test</b>
<b>3</b>	<b>To conduct activities for Slow learners</b>
<b>4</b>	<b>To conduct activities for Advanced learners</b>
<b>5</b>	<b>To prepare final report</b>



  
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Mahavidyalaya, SAVLAJ, Dist. Sangli



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**Shri. Raosaheb Ramrao Patil Mahavidyalaya, Savlaj**  
**Tal.- Tasgaon, Dist.- Sangli.**  
**Department of Chemistry**  
**Academic Year 2020-21**

**Meeting Notice**

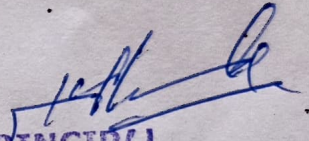
**Date: 09/10/2021**

All the faculty members are hereby informed that the meeting related to slow and advance learners will be held on 11/10/2021 in the IQAC hall at 11:00 a.m.

The meeting is arranged to discuss following points-

1. To conduct screening test for identifying advanced and slow learners
2. Planning regarding improvement of performance of students



  
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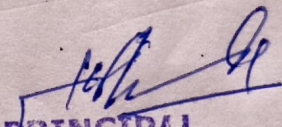
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**Department of Chemistry**  
**Academic Year 2021-22**

**Proceeding**

The meeting related to slow and advanced learners was held on 11/10/2021 in the IQAC hall at 11:00 a.m.

1. All faculty members decided to launch slow and advanced learners scheme.
2. Committee decided to conduct extra lectures and prepare time table for the same.
3. Tests will be conducted.
4. It was resolved that screening test for B.Sc.-I students be conducted to identify slow and advance learners. Also it was resolved that special unit test for these students be conducted. Moreover, extra lectures and contact sessions for these students be arranged.



  
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**Department of Chemistry**

**Action Taken Report**

On the basis of screening test, the students were classified into slow and advance learner's batches. The students who have obtained below average marks are slow learners and students with distinction are advanced learners.

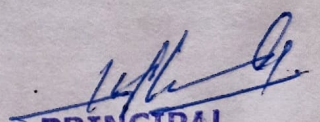
**Activities for Advanced Learners:**

- Seminars
- Home assignments
- Poster presentations

**Activities for Slow Learners:**

- Extra lectures and Unit test.
- Special Contact Sessions for to discuss their performance



  
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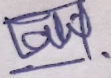


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Department of Chemistry  
Academic Year 2021-22  
Screening Test

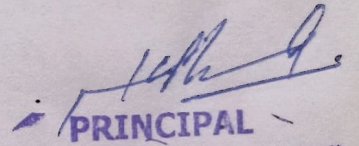
Notice

Date: 13/10/2021 .

All the students of B.Sc.-I are hereby informed to attend screening test to be conducted to assess learning level of the students on Saturday, 17/10/2021 from 10:00 a.m. to 11:00 a.m. in the class room (hall) no. 21. The test will be based on objective type questions and will carry 50 marks.



Teacher in Charge



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Tal.- Tasgaon, Dist.- Sangli

Department of Chemistry

Academic Year 2021-22

Screening Test for Slow and Advanced Learners

Result

Sr. No.	Name of the Student	Roll No.	Marks (out of 50)
1	BABAR SANIKA SUNIL	401	39
2	BHOSALE PAYAL SURESH	402	42
3	BHOSALE PRANALI VISHNU	403	22
4	BHOSALE SHUBHAM BHARAT	404	32
5	CHAVAN AARATI BALASO	405	30
6	CHAVAN ANJANA LAXMAN	406	44
7	CHAVAN GANESH SANJAY	407	36
8	CHAVAN PRAJAKTA PANDURANG	408	42
9	CHAVAN RUTUJA NAMDEV	409	36
10	CHAVAN SUSHANT UTTAM	410	32
11	CHAVAN SUSMITA BALASO	411	46
12	CHAVAN VAISHNAVI BALASAHEB	412	38
13	CHAVAN VIDYA TANAJI	413	38
14	DESHMUKH ANIKET VIJAY	414	36
15	DEVKAR SAKSHI VAIBHAV	415	39
16	DHOTRE PRIYA KISHOR	416	38
17	HATEKAR SANIKA VITTHAL	417	32
18	JADHAV ANURADHA SIDDHESHWAR	418	38
19	JADHAV DHANSHRI SANTOSH	419	30
20	JADHAV DIVYA CHANDRAKANT	420	36
21	JADHAV KIRAN VIJAY	421	28
22	JADHAV PRAJAKTA VISHNU	422	30
23	JADHAV PRATIKSHA SARJERAV	423	44



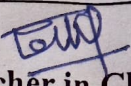


24	JADHAV ROHIT ANANDA	424	26
25	JADHAV ROHIT KRUSHNAT	425	28
26	JADHAV ROHIT VISHANU	426	30
27	JADHAV SAKSHI ANANDRAO	427	32
28	KALAL GAURAV SANJAY	428	38
29	KARANDE RUTUVIK KUBER	429	20
30	KAVATHEKAR PRATIK SHIVAJI	430	44
31	KENGARE GANESH SAHADEV	431	AB
32	KODAG PRATIK DILIP	432	36
33	KODAG SOURABH SATISH	433	38
34	LONDHE PRUTHVIRAJ NAMDEV	434	20
35	MALI NIKITA NITIN	435	34
36	MORE ANKITA VISHNU	436	34
37	MULANI SANA HARUN	437	36
38	NESARGE ANIKET ASHOK	438	18
• 39	NIKALJE SHRUTIKA DIPAK	439	32
40	NIKAM SNEHAL SURESH	440	36
41	NIMBALKAR PRASAD SATISH	441	34
42	PATIL ASAVARI VINAYAK	442	38
43	PATIL DIPAK SHASHIKANT	443	20
• 44	PATIL KIRAN BALASAHEB	444	30
45	PATIL MEGHAN NANASO	445	32
46	PATIL OMKAR DARGONDA	446	30
47	PATIL PALLAVI MARUTI	447	28
48	PATIL PRAJWAL RAJENDRA	448	28
• 49	PATIL RAHUL DIPAK	449	30
50	PATIL SARANG SUNIL	450	32
51	PATIL SUSHANT SAMBHAJI	451	34
52	PATIL VARSHARANI SUNIL	452	32
53	PATIL VIDAYA DIPAK	453	34





54	PAWAR AISHWARYA SAMBHAJI	454	30
55	PAWAR SIDDANATH NIVRUTI	455	28
56	PAWAR SUJATA JALINDAR	456	32
57	SALUNKHE SACHIN DADASO	457	36
58	SALUNKHE SUMIT SAHEBRAO	458	36
59	SHINTRE SHRADDHA DATTATRAY	459	39
60	SONTAKKE SAKSHI BALASAHEB	460	38
61	SURYAVANSHI SATYAM ANIL	461	36
62	SUTAR MANISHA GANESH	462	38
63	SUTAR SHITAL DNYANDEV	463	38
64	YADAV SHAKTIMAN SUBHASH	464	36
65	ZAMBRE NAGESH DILIP	465	16
66	ZENDE PRITI PRABHAKAR	466	32
67	KEDAR PRANAY NAVNATH	467	39
68	SALUNKHE PORNIMA KISAN	468	38
69	JADHAV HARSHADA POPAT	469	42
70	ZAMBRE JEEVAN ARJUN	470	32
71	ZAMBRE SATYAJEET VINOD	471	39
72	GHODAKE KAJAL SATYAVAN	472	36
73	KAMBLE ANOKH BHARAT	473	38
74	JADHAV SWARAJ RAJARAM	474	32
75	CHAVAN SHITAL BALASO	475	39
76	KAMBLE SANDESH VINOD	476	38
77	BODKE MUKHES VINAYAK	477	48
78	PATIL SAGAR GORAKH	478	36
79	YADAV SOURABH BALASO	479	39
80	PIMPALE TEJASWINI SHASHIKANT	480	36
81	CHAVAN RAHUL MANIK	481	32

  
Teacher in Charge

  
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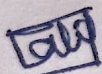
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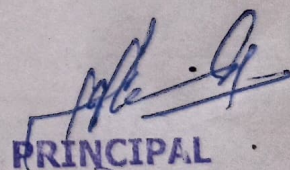
Screening Test for slow and advanced learners

List of Advanced Learners

Sr. No.	Name of the Student	Roll No.	Marks (out of 50)
1	BHOSALE PAYAL SURESH	402	42
2	CHAVAN ANJANA LAXMAN	406	44
3	CHAVAN PRAJAKTA PANDURANG	408	42
4	CHAVAN SUSMITA BALASO	411	46
5	JADHAV HARSHADA POPAT	469	42
6	JADHAV PRATIKSHA SARJERAV	423	44
7	KAVATHEKAR PRATIK SHIVAJI	430	44



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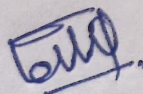
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Academic Year 2021-22

Screening Test for slow and advanced learners

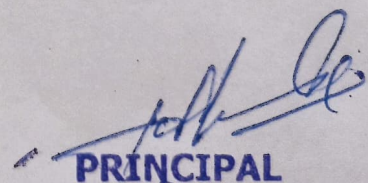
List of Slow Learners

Sr. No.	Name of the Student	Roll No.	Marks (out of 50)	Percentage
1	BHOSALE PRANALI VISHNU	403	22	44 %
2	LONDHE PRUTHVIRAJ NAMDEV	434	20	40 %
3	NESARGE ANIKET ASHOK	438	18	36 %
4	PATIL DIPAK SHASHIKANT	443	20	40 %
5	KARANDE RUTVIK KUBER	429	20	40 %
6	ZAMBRE NAGESH DILIP	465	16	32%



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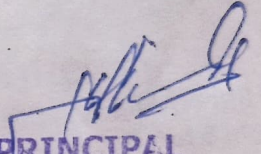
**Notice for Slow learners**

**Date: 24/10/2021**

All the students in the list of slow learners are hereby informed that the extra lectures will be conducted on each Friday and Saturday at 10:00 a.m. in the Gymkhana hall. All students are informed to attend the same.



Teacher in Charge

  
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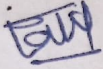


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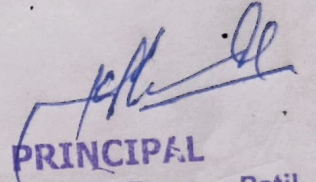
**Notice for Advanced learners**

**Date: 24/10/2021**

All the students in the list of advanced learners are hereby informed that the extra lectures will be conducted on each Saturday at 10:00 a.m. in the Gymkhana hall. All students are informed to attend the same.



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Tal.- Tasgaon, Dist.- Sangli.

Department of Chemistry

Academic Year 2021-22

Slow Learners Activity: Extra Lectures

Time Table - Sem. I

Venue: Gymkhana Hall

Sr. No.	Subject	Teacher Name	Date	Topic	Sign.
1	Chemistry	Mr. Patil S. P.	29 Oct 2021	Atomic structure and periodicity of elements	
2	Chemistry	Mr. Pawar A.S.	30 Oct 2021	Basic principles of organic chemistry.	
3	Chemistry	Miss. Waghmare S.M.	12 Nov 2021	Basic Concepts of Chemistry	
4	Chemistry	Mr. Patil S. P.	13 Nov 2021	chemical Bonding and molecular structure	
5	Chemistry	Mr. Pawar A.S.	20 Nov 2021	Stereochemistry	
6	Chemistry	Miss. Waghmare S.M.	26 Nov 2021	Basic Concept of Chemistry	
7	Chemistry	Mr. Patil S. P.	27 Nov 2021	valence Bond Theory	
8	Chemistry	Mr. Pawar A.S.	03 Dec 2021	Aromaticity	
9	Chemistry	Miss. Waghmare S.M.	04 Dec 2021	Special Contact session	
10	Chemistry	Mr. Patil S. P.	10 Dec 2021	Revision-Contact session	

Teacher in Charge



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Department of Chemistry

Academic Year 2021-22

Slow Learners Activity: Extra Lectures

Time Table - Sem.-II

Venue: Gymkhana Hall

Sr. No.	Subject	Teacher Name	Date	Topic	Sign.
1	Chemistry	Mr. Patil S. P.	11 Feb 2022	Analysis of Fertilizers	
2	Chemistry	Mr. Pawar A.S.	12 Feb 2022	Introduction to Analytical Chemistry	
3	Chemistry	Miss. Waghmare S.M.	18 Feb 2022	Thermodynamics	
4	Chemistry	Mr. Patil S. P.	25 Feb 2022	Chromatography	
5	Chemistry	Mr. Pawar A.S.	4 March 2022	Theory of titrimetric Analysis.	
6	Chemistry	Miss. Waghmare S.M.	05 March 2022	Thermochemistry	
7	Chemistry	Mr. Patil S. P.	11 March 2022	Basic concepts of Chemistry	
8	Chemistry	Mr. Pawar A.S.	12 March 2022	Errors & types of errors.	
9	Chemistry	Miss. Waghmare S.M.	19 March 2022	Chemical-Equilibrium	
10	Chemistry	Miss. Waghmare S.M.	25 March 2022	Chemical Kinetics	

Teacher in Charge

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 Department of Chemistry  
 Academic Year 2021-22

**Slow Learners Activity: Extra Lectures**

**Attendance**

**Semester**

Sr. No.	Roll No.	Student Name	29 Oct 2021	30 Oct 2021	12 Nov 2021	13 Nov 2021	20 Nov 2021	26 Nov 2021	27 Nov 2021	03 Dec 2021	04 Dec 2021	10 Dec 2021
1	403	BHOSALE PRANALI VISH NU	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali
2	429	KARANDE RUTVIK KUBER	R <sub>2</sub>	R <sub>2</sub>	R <sub>2</sub>	R <sub>2</sub>	R <sub>2</sub>	R <sub>2</sub>	R <sub>2</sub>	R <sub>2</sub>	R <sub>2</sub>	R <sub>2</sub>
3	434	LONDHE PRUTHVIRAJ NAMDEV	Alondhe	Alondhe	Alondhe	Alondhe	Alondhe	Alondhe	Alondhe	Alondhe	Alondhe	Alondhe
4	438	NESARGE ANIKET ASHOK	ANESARGE	ANESARGE	ANESARGE	ANESARGE	ANESARGE	ANESARGE	ANESARGE	ANESARGE	ANESARGE	ANESARGE
5	443	PATIL DIPAK SHASHIKANT	DSPatil	DSPatil	DSPatil	DSPatil	DSPatil	DSPatil	DSPatil	DSPatil	DSPatil	DSPatil
6	465	ZAMBRE NAGESH DILIP	Zamdg	Zamdg	Zamdg	Zamdg	Zamdg	Zamdg	Zamdg	Zamdg	Zamdg	Zamdg

Low  
 Teacher in Charge



Principal  
**PRINCIPAL**  
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**Tal. Tasgaon, Dist. Sangli.**  
**Department of Chemistry**  
**Academic Year 2021-22**

**Slow Learners Activity: Extra Lectures**  
**Attendance**

**Semester**

Sr. No.	Roll No.	Student Name	11 Feb 2022	12 Feb 2022	18 Feb 2022	25 Feb 2022	04 March 2022	05 March 2022	11 March 2022	12 March 2022	19 March 2022	25 March 2022
1	403	BHOSALE PRANALI VISHANU	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali
2	429	KARANDE RUTVIK KUBER	Rg	Rg	Rg	Rg	Rg	Rg	Rg	Rg	Rg	Rg
3	434	LONDHE PRUTHVIRAJ NAMDEV	Nlondhe	Nlondhe	Nlondhe	Nlondhe	Nlondhe	Nlondhe	Nlondhe	Nlondhe	Nlondhe	Nlondhe
4	438	NESARGE ANIKET ASHOK	Nesarge	Nesarge	Nesarge	Nesarge	Nesarge	Nesarge	Nesarge	Nesarge	Nesarge	Nesarge
5	443	PATIL DIPAK SHASHIKANT	DPatil	DPatil	DPatil	DPatil	DPatil	DPatil	DPatil	DPatil	DPatil	DPatil
6	465	ZAMBRE NAGESH DILIP	Zandg	Zandg	Zandg	Zandg	Zandg	Zandg	Zandg	Zandg	Zandg	Zandg

*[Signature]*

Teacher in Charge



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 Department of Chemistry  
 Academic Year 2020-21

**Slow Learners Activity: Home assignments and Unit tests completion**

Roll No.	Student Name	Semester-I				Semester-II			
		8 Jan 2022	15 Jan 2022	22 Jan 2022	29 Jan 2022	09 Apr 2022	16 Apr 2022	23 Apr 2022	30 Apr 2022
403	BHOSALE PRANALI VISH .NU	<u>Pranali</u>	<u>Pranali</u>	<u>Pranali</u>	<u>Pranali</u>	<u>Pranali</u>	<u>Pranali</u>	<u>Pranali</u>	<u>Pranali</u>
429	KARANDE RUTVIK KUBER	<u>Rz</u>	<u>Rz</u>	<u>Rz</u>	<u>Rz</u>	<u>Rz</u>	<u>Rz</u>	<u>Rz</u>	<u>Rz</u>
434	LONDHE PRUTHVIRAJ NAMDEV	<u>Nlondhe</u>	<u>Nlondhe</u>	<u>Nlondhe</u>	<u>Nlondhe</u>	<u>Nlondhe</u>	<u>Nlondhe</u>	<u>Nlondhe</u>	<u>Nlondhe</u>
438	NESARGE ANIKET ASHOK	<u>Nnesarge</u>	<u>Nnesarge</u>	<u>Nnesarge</u>	<u>Nnesarge</u>	<u>Nnesarge</u>	<u>Nnesarge</u>	<u>Nnesarge</u>	<u>Nnesarge</u>
443	PATIL DIPAK SHASHIKANT	<u>DS Patil</u>	<u>DS Patil</u>	<u>DS Patil</u>	<u>DS Patil</u>	<u>DS Patil</u>	<u>DS Patil</u>	<u>DS Patil</u>	<u>DS Patil</u>
465	ZAMBRE NAGESH DILIP	<u>Zandg</u>	<u>Zandg</u>	<u>Zandg</u>	<u>Zandg</u>	<u>Zandg</u>	<u>Zandg</u>	<u>Zandg</u>	<u>Zandg</u>

TSV

Teacher in Charge



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 PRINCIPAL

Shri. Raosaheb Ramrao Patil  
 Mahavidyalaya, SAVLAJ, Dist. Sangli



Rayat Shikshan Sanstha's  
Shri. Raosaheb Ramrao Patil Mahavidyalaya, Savlaj

Tal.- Tasgaon, Dist.- Sangli.

Department of Chemistry

Academic Year 2021-22

Advanced Learners Activity: Extra Lectures

Time Table - Sem.-I

Venue : Gymkhana Hall

Sr. No.	Subject	Teacher Name	Date	Topic	Sign.
1	Chemistry	Mr. Patil S. P.	13 Nov 2021	Magic Chemistry	
2	Chemistry	Mr. Pawar A.s.	20 Nov 2021	Chemistry in everyday life.	
3	Chemistry	Miss. Waghmare S.M.	27 NOV 2021	<del>Molecular</del> Kinetic Theory of Gases	
4	Chemistry	Mr. Patil S. P.	4 Dec 2021	Natural Products	
5	Chemistry	Mr. Pawar A.s.	11 Dec 2021	Green chemistry & Nano chemistry.	

Teacher in Charge

PRINCIPAL

Shri. Raosaheb Ramrao Patil  
Mahavidyalaya, SAVLAJ, Dist. Sangli







Rayat Shikshan Sanstha's  
**Shri. Raosaheb Ramrao Patil Mahavidyalaya, Savlaj**

Tal.- Tasgaon, Dist.- Sangli.  
Department of Chemistry  
Academic Year 2021-22

**Advanced Learners Activity: Extra Lectures Attendance**

Roll No.	Student Name	13 Nov 2021	20 Nov 2021	27 Nov 2021	4 Dec 2021	11 Dec 2021
402	BHOSALE PAYAL SURESH	Puust.	Puust.	Puust.	Puust.	Puust.
406	CHAVAN ANJANA LAXMAN	Am	Am	Am	Am	Am
408	CHAVAN PRAJAKTA PANDURANG	Phavon	Phavon	Phavon	Phavon	Phavon
411	CHAVAN SUSMITA BALASO	Phavon	Phavon	Phavon	Phavon	Phavon
469	JADHAV HARSHADA POPAT	Hradhar	Hradhar	Hradhar	Hradhar	Hradhar
423	JADHAV PRATIKSHA SARJERAV	Pradhar	Pradhar	Pradhar	Pradhar	Pradhar
430	KAVATHEKAR PRATIK SHIVAJI	Pradhar	Pradhar	Pradhar	Pradhar	Pradhar

*[Signature]*

Teacher in Charge



*[Signature]*  
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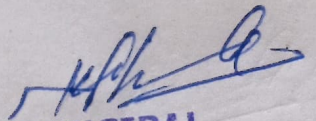
Tal.- Tasgaon, Dist.- Sangli.

Department of Chemistry

Academic Year 2021-22

Activities conducted for Slow Learners and Advanced Learners

Sr. No.	Name of Activity
1	Extra Lectures
2	Home Assignments
3	Unit Test
4	Seminar
5	Special Contact Session

  
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“Education through self-help is our motto”- Karmaveer

Rayat Shikshan Sanstha's

**Shri. Raosaheb Ramrao Patil Mahavidyalaya, Savlaj**

Tal.- Tasgaon, Dist.- Sangli.

**Department of Chemistry**

**Academic Year 2021-22**

**Programmes for Slow Learners and Advanced Learners**

**Report- 2021-22**

The Science faculty conducted scheme for advanced learners and slow learners during the academic year 2021-22. The screening test was conducted to assess the learning level of the students. Based on the performance of students in test, previous year marks, and overall performance, the students were classified into the slow learners and advanced learners. The extra lectures were conducted for the slow learners to deal with difficult topics. The confidence level of the students build up through various class and course activities. Advanced learners were encouraged and guided to participate in various curricular, extracurricular and research activities conducted by the college and other institutions.

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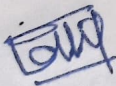
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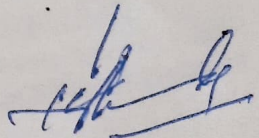




Rayat Shikshan Sanstha's  
**Shri. Raosaheb Ramrao Patil Mahavidyalaya, Savlaj**  
Tal. - Tasgaon, Dist. - Sangli.  
Department of Chemistry  
Academic Year 2021-22  
Slow Learners Progressive Chart

Sr. No.	Roll No.	Student Name	Marks obtained in Screening Test		Marks obtained after Extra Lectures and Contact Session				
			Out of 50 M	%	Sem.-I (100 M)	Sem.-II (100 M)	Practical (50 M)	Total (250 M)	%
1	403	BHOSALE PRANALI VISHNU	22	44	74	35	43	152	60.8
2	434	LONDHE PRUTHVIRAJ NAMDEV	20	40	38	58	43	139	55.6
3	438	NESARGE ANIKET ASHOK	18	36	86	27	Ab	113	45.2
4	443	PATIL DIPAK SHASHIKANT	20	40	84	24	42	150	60
5	429	KARANDE RUTVIK KUBER	20	40	80	45	34	159	63.6
6	465	ZAMBRE NAGESH DILIP	16	32	92	11	33	136	54.4

  
Teacher in Charge

  
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**Shri. Raosaheb Ramrao Patil Mahavidyalaya, Savlaj**  
**Tal.-Tasgaon, Dist.-Sangli**  
**Academic Year- 2021-22**  
**Screening Test**  
**B. Sc. I**

Student Name:  
Date: 17/10/ 2021

Marks- 50  
Time: 11:00 a.m. to 12:00 p.m.

Note: All questions are compulsory.

Each Question carries 2 marks.

Que. Make a tick mark (✓) of the following sentences by choosing the correct alternative.

1. The physics is .....science  
A) qualitative                      B) )quantitative                      C) quadrative                      D) no any one
2. The physical quantity does not depends on any other quantity known as .....quantity.  
A) physical                      B) fundamental                      C) derived                      D) all of these
3. The SI unit of temperature is .....  
A) kelvin .                      B) meter                      C) second                      D) ampere
4. 1 joule =.....erg  
A)  $10^7$                       B)  $10^8$                       C)  $10^9$                       D)  $10^5$
5. Which wave studied in quantum mechanics .....  
A) mechanical wave                      B) matter wave                      C) em wave                      D) all of these
6. Atomic orbitals are .....  
A) polycentric                      B) monocentric                      C) bicentric                      D) neutral
7. Electronic configuration of Calcium (Ca) is .....  
A)  $[Ar] 3d^2 4s^1$                       B)  $[Ar] 3d^2 4s^2$                       C)  $[Ar] 4s^2$                       D)  $[Ar] 4s^1$
8. Carbocation have..... Charge.  
A) positive                      B) negative                      C) neutral                      D) zero
9. Inductive effect is .... effect.  
A) permanent                      B) temporary                      C) time variable                      D) constant
10. ----- gases obey the gas lacos at all temperatures & pressures  
A) ideal .                      B) non-ideal                      C) real                      D) none of these
11. Viruses are ----- type of parasite.  
A)Obligate                      B) Facultative                      C) Both                      D) None of these
12. ----- is used as biofertilizer.  
A) Ectocarpus                      B) Nostoc                      C) Ulothrix                      D) Volvox
13. Study of algae is called as -----  
A) Phycology                      B) Mycology                      C) Geology                      D) None of these





14. The mode of nutrition in fungi is -----  
 A) Autotrophic      B) Heterotrophic      C) Both      D) None of these
15. Locomotion in paramoecium is achieved by.....  
 A) Flagella      B) Cilia      C) Pseudopodia      D) Cilia and Pseudopodia
16. Spongilla belongs to class.....  
 A) Hexactinellida      B) Calcarea      C) Scyphozoa      D) Demospongia
17. Stone canal is.....shaped  
 A) "A"      B) "C"      C) "D"      D) "S"
18. In brittle star arm has.....in number  
 A) Five      B) Four      C) Three      D) Six
19. If  $z = 3+5i$ , then  $\text{Im}(z^2) =$  -----  
 A) 15      B) 30      C) 34      D) -16
20. A function  $f(x,y)$  has an extreme value at  $(a,b)$  then....  
 A)  $AC-B^2 > 0$       B)  $AC-B^2 < 0$       C)  $AC-B^2 = 0$       D)  $AB-c^2 = 0$
21. A polynomial function in  $\mathbb{R}$  -----  
 A) is never continuous in  $\mathbb{R}$       B) may or may not be continuous in  $\mathbb{R}$   
 C) is always continuous in  $\mathbb{R}$       D) is continuous in  $\mathbb{R}$  except at  $x=0$
22. Left hand limit of  $(1/x)$  as  $x$  tends to 0 is -----  
 A)  $\infty$       B)  $-(\infty)$       C) 1      D) none of this
23. A box contains 5 balls numbered 1, 2, 3, 4, 5 one ball is drawn at random and  $X$  denotes the number on selected ball then expected value of  $X$  is.....  
 A) 4      B) 3      C) 2      D) 1
24. If  $X$  follows Binomial  $(n, p)$  for  $n = 1$  then distribution of  $X$  becomes.....  
 A) Binomial distribution      B) Discrete uniform distribution  
 C) Bernoulli distribution      D) none of these
25. If  $X$  is discrete random variable then its  $V(X)$  is.....  
 A)  $E(X^2) - E(X)$       B)  $[E(X)]^2 - E(X^2)$   
 C)  $[E(X)]^2 - E(X)$       D)  $E(X^2) - [E(X)]^2$

