

"Dissemination of Education for Knowledge, Science and Culture"

- **Shikshanmaharshi Dr. Bapuji Salunkhe**

Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur (Empowered Autonomous)

Department of Microbiology (UG)

Academic Year 2024-25

Value Added Course

**"Microbial Quality Control
in
Pharmaceutical Industries"**



Shri Swami Vivekanand Shikshan Sanstha's
Vivekanand College, Kolhapur (An Empowered Autonomous Institute)
Department of Microbiology (UG)
Academic Year 2024-25

**Value Added Course in
“Microbial Quality Control in Pharmaceutical Industries”**

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Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur (Empowered Autonomous)

DEPARTMENT OF MICROBIOLOGY

ACADEMIC YEAR 2024-25



*Microbial quality
control in
Pharmaceutical
Industries*

*DURATION:
1 MONTH*

*ADMISSION OPEN
(LIMITED SEATS
ONLY)*

Contact us

- Ms. V. V. Misal: +919822376171
- Mr. S. D. Gabale: +919970191188
- Ms. S. A. Pise: +917507611308
- Ms. M. M. Nadkarni: +917020185571
- Ms. S. S. Shaikh: +918805690190

Dissemination of Education for Knowledge, Science and Culture"
- Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha's
VIVEKANAND COLLEGE, KOLHAPUR (EMPOWERED AUTONOMOUS)

Department of Microbiology (UG)

Academic Year 2024-25

Date -: 26/08/2024

NOTICE

All the HOD's are hereby informed that admissions for Value Added Course in "Microbial Quality Control in Pharmaceutical Industries" organized by Department of Microbiology, Vivekanand College, Kolhapur (Empowered Autonomous) will start on 20.09.2024. All interested students are requested to contact the Department of Microbiology for registration. All the HOD's are requested to kindly send this notice on the respective Whatsapp groups.

Registration Fees: Rs. 500

Total seats: 40

CLASH
VIVEKANAND COLLEGE KOLHAPUR
ESTD JUNE 1964
(Empowered Autonomous)




Dr. G. K. Sontakke
HEAD
DEPARTMENT OF MICROBIOLOGY
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)

Dissemination of Education for Knowledge, Science and Culture"
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Shri Swami Vivekanand Shikshan Sanstha's
Vivekanand College , Kolhapur (Empowered Autonomous)

Department of Microbiology

Academic Year 2024-25

Date -: 26/08/2024

NOTICE

All the HOD's are hereby informed that admissions for Value Added Course in "Microbial Quality Control in Pharmaceutical Industries" organized by Department of Microbiology, Vivekanand College, Kolhapur (Empowered Autonomous) will start on 20.09.2024. All interested students are requested to contact the Department of Microbiology for registration. All the HOD's are requested to kindly send this notice on the respective Whatsapp groups.

Total seats: 40




Dr. G. K. Sontakke
HEAD
DEPARTMENT OF MICROBIOLOGY
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)

Sr. No.	Department	Name of HOD	Sign
1.	Botany	Dr. B. T. Dangat	<i>[Signature]</i>
2.	Zoology	Dr. G. K. Sontakke	<i>[Signature]</i>
3.	Biotechnology (Entire)	Mr. S. H. Kulkarni	<i>[Signature]</i>
4.	Biotechnology (Optional)	Dr. S. H. Nadaf	<i>[Signature]</i>
5.	Chemistry	Dr. S. D. Shirke	<i>[Signature]</i>



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Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

Department of Microbiology (UG)

Academic Year 2024-25

Date: 31/12/2024

**Value Added Course in
"Microbial Quality Control in Pharmaceutical Industries"**

NOTICE

All the students who have admitted to value added Courses in "**Microbial Quality Control in Pharmaceutical Industries**" department of microbiology are hereby informed that the lectures of the value-added course will be conducted from **06/01/2025** every Monday to Saturday at **9:00 am to 11:00 am**



Dr. G. K. Sontakke

HC HEAD
DEPARTMENT OF MICROBIOLOGY
VIVEKANAND COLLEGE, KOLHAPUR
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Department of Microbiology (UG)

Academic Year 2024-25

**Value Added Course in
"Microbial Quality Control in Pharmaceutical Industries"**

Sr. No.	Heading	Particulars
1	Title of the Course	Microbial quality control in pharmaceutical industries
2	Eligibility for Admission	Candidate who passed 10+2 examination with at least 45% marks in aggregate in Arts/ Commerce/ Science
3	Passing Marks for the course	The candidate must obtain 35 % of the total marks in theory and practical separately to pass the course.
4	Level	Value Added
5	Pattern	Trimester
6	Intake Capacity	40 (2 batches each of 40)
7	Fees	Rs. 500/-
8	Job opportunities	Pharmaceutical industry and Private sectors
9	To be implemented from the Academic Year	From Academic Year -2024-25
10	Course Co-ordinator	Ms. M. M. NADKARNI (7020185571)

The present value-added course is framed to give sound knowledge with understanding of basic and advanced concepts of quality control in pharmaceutical industries. The goal of the syllabus is to implement career-oriented education and skills to student interested in directly entering the industrial workforce.

OBJECTIVES OF THE COURSE –

1. To develop skills required in pharmaceutical industries, research labs and in the field of human health.
2. To prepare the students to accept the challenges in industrial sectors.
3. To promote understanding of basic and advanced concepts of quality control in pharmaceutical industries.



COURSE OUTCOME:

After completing this course, students will be able to-

- ◆ Understand clean room concept and its applications in pharmaceutical industries
- ◆ Apply good laboratory practices during work in pharmaceutical industries.
- ◆ Understand various drug acts related to pharmaceutical industries.
- ◆ Use biochemical and immunological methods for testing of pharmaceutical products.

Title of the course: Microbial Quality Control in Pharmaceutical Industries

Total Hours: 30

Total Marks: 100

Course	Unit	Topic	Hour/Unit
Add-on (Semester)	I	Microbiological laboratory and safe practices.	15
	II	Determining microbes in pharmaceutical samples	15



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Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

Department of Microbiology (UG)

Academic Year 2024-25

**Value Added Course in
"Microbial Quality Control in Pharmaceutical Industries"**

SYLLABUS

TOTAL HOURS: 30

	Microbiological Laboratory and safe practices	No. of Hours
UNIT I	A. Good laboratory practices -: Good laboratory practices & Good microbiological practices B. Biosafety cabinets : Working of Biosafety cabinets, using protective clothing, specification for BSL -1, BSL-2, BSL-3 and BSL -4. C. Clean room concept - Classification, Sampling and Control of Microorganisms. D. Discarding biohazardous waste - Methodology of disinfection, Autoclaving and Incineration E. Drug act schedule 1 – IP, BP, USBP, GMP	15
UNIT II	Determining Microbes in food / Pharmaceutical Sample A. Biochemical and immunological method : Limulus lysate test for endotoxin, gel diffusion, sterility testing for pharmaceutical products. B. Injectables C. Molecular method – biosensors D. Calibration of instruments	15

➤ **SUGGESTED READING**

- Jay JM, Loessner MJ, Golden da (2005) Modern Food Microbiology, 7th edition. Springer.
- Baird RM, Hodges NA and Denyer SP (2005) Handbook of microbiological quality control in pharmaceutical and medical devices, Taylor and Francis Inc.

➤ **COURSE OUTCOME**

After completing this course, students will be able to:

- Understand clean room concept and its application in pharmaceutical industries
- Apply good laboratory practices during work in pharmaceutical industries.
- Understand various drug acts related to pharmaceutical industries.
- Use biochemical and immunological methods for testing of pharmaceutical products.



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Department of Microbiology (UG)

Academic Year 2024-25

**Value Added Course in
"Microbial Quality Control in Pharmaceutical Industries"**

Syllabus Distribution

Unit	Topic	Name of lecturer
1	A. Good laboratory practices	S.D.Gabale
	B. Biosafety cabinets	S.A.Pise
	C. Clean Room Concept	M. M. Nadkarni
	D. Discarding biohazardous waste	S. S. Shaikh
	E. Drug act schedule 1	M. M. Nadkarni
2	A. Biochemical and immunological methods	V.V.Misal
	B. Injectables	V.V.Misal
	C. Biosensors	S.D.Gabale
	D. Calibration of instruments	S. S. Shaikh



Gaupale
Dr. T.C. Gaupale
MC HEAD
DEPARTMENT OF MICROBIOLOGY
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)

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Vivekanand College, Kolhapur (An Empowered Autonomous Institute)
Department of Microbiology (UG)
Academic Year 2024-25

Value Added Course in
"Microbial Quality Control in Pharmaceutical Industries"

TIME TABLE

TIME	MON	TUE	WED	THURS	FRI	SAT
9:00-10:00 am	VVM	SAP	SSS	SDG	MMN	VVM/MMN
9:00-10:00 am	MMN	SDG	VVM	SSS	SAP	SDG/SAP/SSS

- VVM: Vrushali V. Misal
- SAP: Shweta A. Pise
- SDG: Suraj D. Gabale
- MMN: Mitali M. Nadkarni
- SSS: Saniya S. Shaikh




Dr. T.C. Gaupale
HC HEAD
DEPARTMENT OF MICROBIOLOGY
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)

Shri Swami Vivekanand Shikshan Sanstha's
Vivekanand College, Kolhapur (An Empowered Autonomous Institute)
Department of Microbiology (UG)
Academic Year 2024-25

Value Added Course in
"Microbial Quality Control in Pharmaceutical Industries"
STUDENTS LIST

Sr. no	Name of students	Roll No.
1.	Ambale Riya Sunil.	2501
2.	Ambale Siddhi Yuvraj.	2502
3.	Balugade Vaishnavi Shahaji	2503
4.	Belekar Siddhi Dipak	2504
5.	Bhoje Adesh Chandrakant.	2505
6.	Bhosale Shruti Sachin.	2506
7.	Dalavi Trailokya Nitin.	2507
8.	Dalvi Janavi Ananda	2508
9.	Deshmukh Sanskruti Tanaji.	2509
10.	Divase Tanishka Rahul.	2510
11.	Gaikwad Sakshi Ratan	2511
12.	Ghosarwade Arati Ramachandra	2512
13.	Gurav Shreya Eknath	2513
14.	Gurav Varsha Tanaji.	2514
15.	Gutte Tukaram Dattatry	2515
16.	Hajare Aishwarya Ganesh.	2516
17.	Halave Shubham Pandurang	2517
18.	Haveli Veena Nagnath.	2518
19.	Jadhav Pratiksha Vasant	2519
20.	Jamadar Alisha Nazir.	2520
21.	Jamadar Sadiya Ibrahim.	2521
22.	Jevrani Simran Anil	2522
23.	Kadam Neha Ravindra.	2523
24.	Kale Preeti Daniel.	2524
25.	Kamat Sanskruti Santosh.	2525
26.	Khot Gayatri Ashok.	2526
27.	Koli Divya Dilip	2527
28.	Korane Sakshi Bhaskar	2528
29.	Kumbhar Priyanka Dipak	2529
30.	Kumbhar Rutuja Suresh	2530
31.	Kumbhar Samiksha Sanjay	2531

32.	Kumbhar Sanika Arun	2532
33.	Kuragotagi Sonali Dhareppa.	2533
34.	Latte Shraddha Bahubali.	2534
35.	Lohar Siddhesh Nivrutti	2535
36.	Mali Tanuja Ajit	2536
37.	Mhetre Girisha Yuvraj	2537
38.	Mole Nikita Tanaji	2538
39.	Parit Priti Anil	2539
40.	Parit Haripriya A.	2540
41.	Patil Joyti Suresh	2541
42.	Patil Rutuja Ravsaheb.	2542
43.	Patil Saloni Gajkumar.	2543
44.	Patil Shreya Sunil	2544
45.	Patil Srushti Suhas.	2545
46.	Patil Vaishnavi Dipak	2546
47.	Patil Vaishnavi Vasudev	2547
48.	Pendhari Simran Mahamad.	2548
49.	Powar Samiksha Santosh	2549
50.	Salunke Vaishnavi Ranjeet.	2550
51.	Sankpal Shraddha Surendra	2551
52.	Shaikh Jiya Ajij.	2552
53.	Shaikh Sadiya Shakil.	2553
54.	Shinde Samruddhi Vijay.	2554
55.	Shinde Shubham Rajendra	2555
56.	Shirodkar Soundarya Umesh.	2556
57.	Sutar Shweta Prabhakar.	2557
58.	Thanekar Sanika Jotiram	2558
59.	Vasagade Shreya Jinendra	2559
60.	Vedpathak Bhagyashri Mahendra.	2560
61.	Vharkat Manasvi Sagar.	2561
62.	Vhanmane Pranali Mhalapa.	2562
63.	Wali Rutuja Shivanand	2563
64.	Jambhale Rajvardhan Vishwas	2564
65.	Kanekar Shruti Sandip	2565
66.	Mhettar Tanuja Netaji	2566
67.	Nikam Anushka Arvind	2567
68.	Patil Purna Mohan	2568
69.	Yadav Joyti Deepak	2569
70.	Yadav Riya Surendra	2570
71.	Nirankar Taruna Vishnu	2571
72.	Pidwani Disha Jairamdas	2572
73.	Mullani Sophiya Wasimraj	2573
74.	Chavan Sanika Pradeep	2574
75.	Majgavkar Sanika Sagar	2575
76.		



Shri Swami Vivekanand Shikshan Sanstha's
Vivekanand College Kolhapur (An Empowered Autonomous Institute)
 Department of Microbiology
Value Added Course In Microbial Quality Control In Pharmaceutical Industry

BATCH 1

Sr. No.	Teacher		VVM	MMN	SDG	SAP	SSS	VVM	MMN	SDG	SAP	Total
	Date		6/1/25	6/1/25	7/1/25	7/1/25	8/1/25	8/1/25	9/1/25	9/1/25	13/1/25	
	Time		9:00 - 10:00	10:00 - 11:00	9:00 - 10:00	10:00 - 11:00	9:00 - 10:00	10:00 - 11:00	9:00 - 10:00	10:00 - 11:00	9:00 - 10:00	
	Name of topic											
	Name of Student	Roll No										
1.	Ambale Riya Sunil.	2501	Ab	Ab	Prambale	Prambale	Prambale	Prambale	Prambale	Prambale	Ab	
2.	Ambale Siddhi Yuvraj.	2502	Ambale	Ambale	Ambale	Ambale	Ambale	Ambale	Ambale	Ambale	Ab	
3.	Balugade Vaishnavi Shahaji	2503	Balugade	Balugade	Balugade	Balugade	Balugade	Balugade	Balugade	Balugade	Ab	
4.	Belekar Siddhi Dipak	2504	Belekar	Belekar	Belekar	Belekar	Ab	Ab	Ab	Ab	Balugade	
5.	Bhoje Adesh Chandrakant.	2505	Bhoje	Bhoje	Bhoje	Bhoje	Ab	Ab	Ab	Ab	Belekar	
6.	Bhosale Shruti Sachin.	2506	Bhosale	Bhosale	Bhosale	Bhosale	Ab	Ab	Ab	Ab	Bhoje	
7.	Dalavi Trailokya Nitin.	2507	Dalvi	Dalvi	Dalvi	Dalvi	Ab	Ab	Ab	Ab	Ab	
8.	Dalvi Janavi Ananda	2508	Dalvi	Dalvi	Dalvi	Dalvi	Ab	Ab	Ab	Ab	I.N.P.	
9.	Deshmukh Sanskruti Tanaji.	2509	Deshmukh	Deshmukh	Deshmukh	Deshmukh	Ab	Ab	Ab	Ab	Dalvi	
10.	Divase Tanishka Rahul.	2510	Divase	Divase	Divase	Divase	Ab	Ab	Ab	Ab	Ab	
11.	Gaikwad Sakshi Ratan	2511	Ab	Ab	Gaikwad	Gaikwad	Ab	Ab	Ab	Ab	Gaikwad	
12.	Ghosarwade Arati Ramachandra	2512	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
13.	Gurav Shreya Eknath	2513	Gurav	Gurav	Gurav	Gurav	Ab	Ab	Ab	Ab	Gurav	
14.	Gurav Varsha Tanaji.	2514	Gurav	Gurav	Gurav	Gurav	Ab	Ab	Ab	Ab	Gurav	
15.	Gutte Tukaram Dattatry	2515	Gutte	Gutte	Gutte	Gutte	Ab	Ab	Ab	Ab	Gutte	
16.	Hajare Aishwarya Ganesh.	2516	Hajare	Hajare	Hajare	Hajare	Hajare	Hajare	Hajare	Hajare	Hajare	
17.	Halave Shubham Pandurang	2517	Halave	Halave	Halave	Halave	Ab	Ab	Ab	Ab	Halave	
18.	Haveli Veena Nagnath.	2518	Haveli	Haveli	Haveli	Haveli	Ab	Ab	Ab	Ab	Haveli	
19.	Jadhav Pratiksha Vasant	2519	Jadhav	Jadhav	Jadhav	Jadhav	Ab	Ab	Ab	Ab	Ab	

20.	Jamadar Alisha Nazir.	2520	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
21.	Jamadar Sadiya Ibrahim.	2521			Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
22.	Jevrani Simran Anil	2522	Sevanti	Sevanti	Sevanti	Sevanti	Ab	Ab	Ab	Ab	Ab	Ab
23.	Kadam Neha Ravindra.	2523	Ab	Ab	Nadani	Nadani	Ab	Ab	Ab	Ab	Ab	Ab
24.	Kale Preeti Daniel.	2524	Ab	Ab	Vakule	Vakule	Ab	Ab	Ab	Ab	Ab	Ab
25.	Kamat Sanskruti Santosh.	2525	Kamat	Kamat	Kamat	Kamat	Kamat	Kamat	Ab	Ab	Kamat	Kamat
26.	Khot Gayatri Ashok.	2526	Ab	Ab	Gofar	Gofar	Ab	Ab	Ab	Ab	Gofar	Gofar
27.	Koli Divya Dilip	2527	Dole	Dole	Dole	Dole	Dole	Dole	Dole	Dole	Dole	Dole
28.	Korane Sakshi Bhaskar	2528	Korane	Korane	Korane	Korane	Korane	Korane	Korane	Korane	Korane	Ab
29.	Kumbhar Priyanka Dipak	2529	Rubhe	Rubhe	Rubhe	Rubhe	Rubhe	Rubhe	Rubhe	Rubhe	Rubhe	Rubhe
30.	Kumbhar Rutuja Suresh	2530	Rubhe	Rubhe	Rubhe	Rubhe	Ab	Ab	Ab	Ab	Rubhe	Rubhe
31.	Kumbhar Samiksha Sanjay	2531	Ab	Ab	Kumbhar	Kumbhar	Ab	Ab	Ab	Ab	Kumbhar	Kumbhar
32.	Kumbhar Sanika Arun	2532	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
33.	Kuragotagi Sonali Dhareppa.	2533	SK	SK	SK	SK	Ab	Ab	Ab	Ab	SK	SK
34.	Latte Shraddha Bahubali.	2534	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
35.	Lohar Siddhesh Nivrutti	2535	SNhar	SNhar	SNhar	SNhar	SNhar	SNhar	SNhar	SNhar	SNhar	SNhar
36.	Mali Tanuja Ajit	2536	Amali	Amali	Amali	Amali	Ab	Ab	Ab	Ab	Amali	Amali
37.	Mhetre Girisha Yuvraj	2537	Gurhe	Gurhe	Gurhe	Gurhe	Ab	Ab	Ab	Ab	Gurhe	Gurhe
38.	Mole Nikita Tanaji	2538	Nmale	Nmale	Nmale	Nmale	Nmale	Nmale	Nmale	Nmale	Nmale	Ab
39.	Parit Priti Anil	2539	Parit	Parit	Parit	Parit	Ab	Ab	Ab	Ab	Parit	Parit
40.	Parit Haripriya A.	2540	Parit	Parit	Parit	Parit	Ab	Ab	Ab	Ab	Parit	Parit
Signature of teacher												



Vivekanand College Kolhapur (An Empowered Autonomous Institute)

Department of Microbiology

Value Added Course In Microbial Quality Control In Pharmaceutical Industry

BATCH 2

BATCH 2												Total
Sr. No.	Teacher		VVM	MMN	SDG	SAP	SSS	VVM	MMN	SDG	SAP	
	Date		6/11/25	6/11/25	7/11/25	7/11/25	8/11/25	8/11/25	9/11/25	9/11/25	13/11/25	
	Time	9:00-10:00	9:00-10:00	9:00-10:00	9:00-10:00	9:00-10:00	9:00-10:00	9:00-10:00	9:00-10:00	9:00-10:00	9:00-10:00	
	Name of topic											
	Name of Student	Roll No.										
1.	Patil Joyti Suresh	2541	Ab	Joyti	Joyti	Joyti	Joyti	Joyti	Ab	Ab	Ab	
2.	Patil Rutuja Ravsaheb.	2542	RRPatil	RRPatil	RRPatil	RRPatil	RRPatil	RRPatil	RRPatil	RRPatil	RRPatil	
3.	Patil Saloni Gajkumar.	2543	SPatil	SPatil	SPatil	SPatil	SPatil	SPatil	SPatil	SPatil	SPatil	
4.	Patil Shreya Sunil	2544	Ab	Shreya	Shreya	Shreya	Shreya	Shreya	Ab	Ab	Ab	
5.	Patil Srushti Suhas.	2545	Ab	Srushti	Srushti	Srushti	Srushti	Srushti	Ab	Ab	Ab	
6.	Patil Vaishnavi Dipak	2546	Ab	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Ab	Ab	Ab	
7.	Patil Vaishnavi Vasudev	2547	Ab	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Ab	Ab	Ab	
8.	Pendhari Simran Mahamad.	2548	Simran	Simran	Simran	Simran	Simran	Simran	Simran	Simran	Simran	
9.	Power Samiksha Santosh	2549	Ab	Samiksha	Samiksha	Samiksha	Samiksha	Samiksha	Ab	Ab	Ab	
10.	Salunke Vaishnavi Ranjeet.	2550	Ab	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Ab	Ab	Ab	
11.	Sankpal Shraddha Surendra	2551	Sankpal	Sankpal	Sankpal	Sankpal	Sankpal	Sankpal	Sankpal	Sankpal	Sankpal	
12.	Shaikh Jiya Ajij.	2552	Ab	Jiya	Jiya	Jiya	Jiya	Jiya	Ab	Ab	Ab	
13.	Shaikh Sadiya Shakil.	2553	Ab	Sadiya	Sadiya	Sadiya	Sadiya	Sadiya	Ab	Ab	Ab	
14.	Shinde Samruddhi Vijay.	2554	Ab	S.V.Shinde	S.V.Shinde	S.V.Shinde	S.V.Shinde	S.V.Shinde	Ab	Ab	Ab	
15.	Shinde Shubham Rajendra	2555	Ab	Shubham	Shubham	Shubham	Shubham	Shubham	Ab	Ab	Ab	
16.	Shirodkar Soundarya Umesh.	2556	Ab	Soundarya	Soundarya	Soundarya	Soundarya	Soundarya	Ab	Ab	Ab	
17.	Sutar Shweta Prabhakar.	2557	Shweta	Shweta	Shweta	Shweta	Shweta	Shweta	Shweta	Shweta	Shweta	
18.	Thanekar Sanika Jotiram	2558	S.J.Thanekar	S.J.Thanekar	S.J.Thanekar	S.J.Thanekar	S.J.Thanekar	S.J.Thanekar	S.J.Thanekar	S.J.Thanekar	S.J.Thanekar	
19.	Vasagade Shreya Jinendra	2559	Ab	Shreya	Shreya	Shreya	Shreya	Shreya	Ab	Ab	Ab	
20.	Vedpathak Bhagyashri Mahendra.	2560	Ab	Bhagyashri	Bhagyashri	Bhagyashri	Bhagyashri	Bhagyashri	Ab	Ab	Ab	
21.	Vharkat Manasvi Sagar.	2561	Ab	Manasvi	Manasvi	Manasvi	Manasvi	Manasvi	Ab	Ab	Ab	
22.	Vhanmane Pranali Mhalappa	2562	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	
23.	Wali Rutuja Shivanand	2563	Ab	Rutuja	Rutuja	Rutuja	Rutuja	Rutuja	Ab	Ab	Ab	
24.	Jambhale Rajvardhan Vishwas	2564	Rajvardhan	Rajvardhan	Rajvardhan	Rajvardhan	Rajvardhan	Rajvardhan	Rajvardhan	Rajvardhan	Rajvardhan	
25.	Kanekar Shruti Sandip	2565	Ab	Shruti	Shruti	Shruti	Shruti	Shruti	Ab	Ab	Ab	

26.	Mhettar Tanuja Netaji	256	Tanuja	Tanuja	Tanuja	AL	AB	AB	AB	AB	AB
27.	Nikam Anushka Arvind	256	AS	AS	AS	AS	AB	AB	AB	AB	AB
28.	Patil Prerna Mohan	2568	Prerna	Prerna	Prerna	AS	AB	AB	AB	AB	AB
29.	Yadav Joyti Deepak	2569	AB	Joyti	Joyti	AS	AB	Joyti	Joyti	AB	AB
30.	Yadav Riya Surendra	2570	AB	Riya	Riya	AS	AB	Riya	Riya	AB	AB
31.	Nirankar Taruna Vishnu	2571	Taruna	AB	AB	AB	AB	Taruna	Taruna	AB	AB
32.	Pidwani Disha Jairamdas	2572	AB	AB	AB	AB	AS	Disha	Disha	AB	AB
33.	Mullani Sophiya Wasimraj	2573	AB	AB	AL	AB	AB	Sophiya	Sophiya	AB	AB
34.	Chavan Sanika Pradeep	2574	AB	AB	AB	AB	AB	Sanika	Sanika	AB	AB
35.	Majgavkar Sanika Sagar	2575	AB	Sanika	Sanika	AB	AB	Sanika	Sanika	AB	AB
36.											
Signature of teacher			Sanika								



Vivekanand College Kolhapur (An Empowered Autonomous Institute)

Department of Microbiology

Value Added Course In Microbial Quality Control In Pharmaceutical Industry

BATCH 1

Sr. No.	Teacher		SSS	SVM	MMN	SDG	SAP	SSS	VVM	MMN	SDG	Total
	Date		15/1/25	15/1/25	15/1/25	16/1/25	16/1/25	20/1/25	20/1/25	21/1/25	21/1/25	
	Time		10:00-11:00	9:00-10:00	10:00-11:00	9:00-10:00	10:00-11:00	9:00-10:00	10:00-11:00	9:00-10:00	10:00-11:00	
	Name of topic											
	Name of Student	Roll No										
1.	Ambale Riya Sunil.	2501	Ab	Rambale	Rambale	Rambale	Rambale	Rambale	Rambale	Ab	Ab	
2.	Ambale Siddhi Yuvraj.	2502	Ab	Ambale	Ambale	Ambale	Ambale	Ambale	Ambale	Ab	Ab	
3.	Balugade Vaishnavi Shahaji	2503	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
4.	Belekar Siddhi Dipak	2504	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
5.	Bhoje Adesh Chandrakant.	2505	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
6.	Bhosale Shruti Sachin.	2506	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
7.	Dalavi Trailokya Nitin.	2507	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
8.	Dalvi Janavi Ananda	2508	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
9.	Deshmukh Sanskruti Tanaji.	2509	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
10.	Divase Tanishka Rahul.	2510	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
11.	Gaikwad Sakshi Ratan	2511	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
12.	Ghosarwade Arati Ramachandra	2512	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
13.	Gurav Shreya Eknath	2513	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
14.	Gurav Varsha Tanaji.	2514	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
15.	Gutte Tukaram Dattatry	2515	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
16.	Hajare Aishwarya Ganesh.	2516	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
17.	Halave Shubham Pandurang	2517	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
18.	Haveli Veena Nagnath.	2518	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
19.	Jadhav Pratiksha Vasant	2519	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	

Bhadhar Bhadhar

20.	Jamadar Alisha Nazir.	2520	Ab	Alisha	Alisha	Alisha	AS	Alisha	Alisha	AS	AS	AS
21.	Jamadar Sadiya Ibrahim.	2521	Ab	Sadiya	Sadiya	Sadiya	AS	Ab	AS	AS	AS	AS
22.	Jevrani Simran Anil	2522	Ab	Ab	Ab	Ab	AS	Simran	Simran	AS	AS	AS
23.	Kadam Neha Ravindra.	2523	Ab	Ab	Ab	Ab	AS	Neha	Neha	AS	AS	AS
24.	Kale Preeti Daniel.	2524	Ab	Rale	Rale	Rale	AS	Rale	Rale	AS	AS	AS
25.	Kamat Sanskruti Santosh.	2525	Kamat	Kamat	Kamat	Kamat	Kamat	AS	AS	AS	AS	AS
26.	Khot Gayatri Ashok.	2526	Gayatri	Gayatri	Gayatri	Gayatri	Gayatri	Gayatri	Gayatri	AS	AS	AS
27.	Koli Divya Dilip	2527	Ab	Ab	AS	Ab	AS	Ab	Ab	AS	AS	AS
28.	Korane Sakshi Bhaskar	2528	Ab	Korane	Korane	Ab	AS	Korane	Korane	AS	AS	AS
29.	Kumbhar Priyanka Dipak	2529	Ab	Rubha	Rubha	Rubha	Ab	Rubha	Rubha	AS	AS	AS
30.	Kumbhar Rutuja Suresh	2530	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	AS	AS	AS
31.	Kumbhar Samiksha Sanjay	2531	Ab	Ab	AS	Ab	AS	Ab	Ab	AS	AS	AS
32.	Kumbhar Sanika Arun	2532	Ab	Ab	AS	Ab	AS	Ab	Ab	AS	AS	AS
33.	Kuragotagi Sonali Dhareppa.	2533	Ab	Ab	AS	Ab	AS	Ab	Ab	AS	AS	AS
34.	Latte Shraddha Bahubali.	2534	Ab	Ab	AS	Ab	AS	Ab	Ab	AS	AS	AS
35.	Lohar Siddhesh Nivrutti	2535	Ab	Ab	AS	Ab	AS	Ab	Ab	AS	AS	AS
36.	Mali Tanuja Ajit	2536	Ab	Ab	AS	Ab	AS	Ab	Ab	AS	AS	AS
37.	Mhetre Girisha Yuvraj	2537	Ab	Ab	AS	Ab	AS	Ab	Ab	AS	AS	AS
38.	Mole Nikita Tanaji	2538	Ab	Ab	AS	Ab	AS	Ab	Ab	AS	AS	AS
39.	Parit Priti Anil	2539	Ab	Ab	AS	Ab	AS	Ab	Ab	AS	AS	AS
40.	Parit Haripriya A.	2540	Ab	Ab	AS	Ab	AS	Ab	Ab	AS	AS	AS

Signature of teacher



24	Jambhale Rajvardhan Vishwas	2564	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
25	Kanekar Shruti Sandip	2565	Ab	Ab	Ranch	Ranch	Ranch	Ranch	Ranch	Ranch	Ranch	Ab
26	Mhettar Tanuja Netaji	2566	Ab	Ab	Ab	Ab	Tanuja	Tanuja	Tanuja	Tanuja	Tanuja	Ab
27	Nikam Anushka Arvind	2567	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
28	Patil Purna Mohan	2568	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
29	Yadav Joyti Deepak	2569	Yadav	Yadav	Yadav	Yadav	Yadav	Yadav	Yadav	Yadav	Yadav	Ab
30	Yadav Riya Surendra	2570	Yadav	Yadav	Yadav	Yadav	Yadav	Yadav	Yadav	Yadav	Yadav	Ab
31	Nirankar Taruna Vishnu	2571	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
32	Pidwani Disha Jairamdas	2572	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
Signature of teacher												Shreel



Jyoti

Vivekanand College Kolhapur (An Empowered Autonomous Institute)

Department of Microbiology

Value Added Course In Microbial Quality Control In Pharmaceutical Industry

BATCH 1

Sr. No.	Teacher		SAP	SSS	VVM	mmN	SDG	SAP	SSS	VVM	mmN	Total
	Date		22/1/25	22/1/25	23/1/25	23/1/25	27/1/25	27/1/25	28/1/25	28/1/25	29/1/25	
	Time		9:00-10:00	10:00-11:00	9:00-10:00	10:00-11:00	9:00-10:00	10:00-11:00	9:00-10:00	10:00-11:00	9:00-10:00	
	Name of topic											
	Name of Student	Roll No										
1.	Ambale Riya Sunil.	2501	<i>Ambale</i>	<i>Ambale</i>	Ab	AS	Ab	Ab	Ab	Ab	AS	
2.	Ambale Siddhi Yuvraj.	2502	<i>Ambale</i>	<i>Ambale</i>	Ab	AS	Ab	Ab	Ab	Ab	AS	
3.	Balugade Vaishnavi Shahaji	2503	Ab	AS	<i>Balugade</i>	<i>Balugade</i>	<i>Balugade</i>	<i>Balugade</i>	Ab	Ab	<i>Balugade</i>	
4.	Belekar Siddhi Dipak	2504	Ab	AS	Ab	AS	Ab	Ab	Ab	Ab	AS	
5.	Bhoje Adesh Chandrakant.	2505	<i>Ab</i>	<i>AS</i>	Ab	AS	Ab	Ab	Ab	Ab	<i>Ab</i>	
6.	Bhosale Shruti Sachin.	2506	<i>Ab</i>	<i>AS</i>	Ab	AS	Ab	Ab	<i>Ab</i>	<i>AS</i>	AS	
7.	Dalavi Trailokya Nitin.	2507	<i>Ab</i>	<i>AS</i>	Ab	AS	Ab	Ab	Ab	Ab	<i>Ab</i>	
8.	Dalvi Janavi Ananda	2508	<i>Ab</i>	<i>AS</i>	Ab	AS	Ab	Ab	Ab	Ab	AS	
9.	Deshmukh Sanskruti Tanaji.	2509	<i>Ab</i>	<i>AS</i>	Ab	AS	Ab	Ab	Ab	Ab	<i>Ab</i>	
10.	Divase Tanishka Rahul.	2510	<i>Ab</i>	<i>AS</i>	Ab	AS	<i>Ab</i>	<i>AS</i>	Ab	Ab	<i>Ab</i>	
11.	Gaikwad Sakshi Ratan	2511	<i>Ab</i>	<i>AS</i>	Ab	AS	Ab	Ab	Ab	Ab	AS	
12.	Ghosarwade Arati Ramachandra	2512	<i>Ab</i>	<i>AS</i>	Ab	AS	Ab	Ab	Ab	Ab	AS	
13.	Gurav Shreya Eknath	2513	Ab	AS	Ab	AS	Ab	Ab	Ab	Ab	AS	
14.	Gurav Varsha Tanaji.	2514	<i>Ab</i>	<i>AS</i>	<i>Ab</i>	<i>AS</i>	<i>Ab</i>	<i>AS</i>	Ab	Ab	AS	
15.	Gutte Tukaram Dattatry	2515	<i>Ab</i>	<i>AS</i>	<i>Ab</i>	<i>AS</i>	<i>Ab</i>	<i>AS</i>	<i>Ab</i>	<i>AS</i>	<i>Ab</i>	
16.	Hajare Aishwarya Ganesh.	2516	Ab	AS	Ab	AS	Ab	Ab	Ab	Ab	AS	
17.	Halave Shubham Pandurang	2517	<i>Ab</i>	<i>AS</i>	Ab	AS	Ab	Ab	Ab	Ab	<i>Ab</i>	
18.	Haveli Veena Nagnath.	2518	Ab	AS	Ab	AS	Ab	Ab	Ab	Ab	AS	
19.	Jadhav Pratiksha Vasant	2519	Ab	AS	Ab	AS	Ab	Ab	<i>Ab</i>	Ab	AS	

20.	Jamadar Alisha Nazir.	2520	Alisha	Alisha	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
21.	Jamadar Sadiya Ibrahim.	2521	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
22.	Jevrani Simran Anil	2522	Jevrani	Jevrani	Jevrani	Jevrani	Ab	Ab	Ab	Ab	Ab	
23.	Kadam Neha Ravindra.	2523	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
24.	Kale Preeti Daniel.	2524	Kale	Kale	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
25.	Kamat Sanskruti Santosh.	2525	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
26.	Khot Gayatri Ashok.	2526	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
27.	Koli Divya Dilip	2527	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
28.	Korane Sakshi Bhaskar	2528	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
29.	Kumbhar Priyanka Dipak	2529	Priyanka	Priyanka	Priyanka	Priyanka	Ab	Ab	Ab	Ab	Ab	
30.	Kumbhar Rutuja Suresh	2530	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
31.	Kumbhar Samiksha Sanjay	2531	Samiksha	Samiksha	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
32.	Kumbhar Sanika Arun	2532	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
33.	Kuragotagi Sonali Dhareppa.	2533	Sonali	Sonali	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
34.	Latte Shraddha Bahubali.	2534	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
35.	Lohar Siddhesh Nivrutti	2535	Siddhesh	Siddhesh	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
36.	Mali Tanuja Ajit	2536	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
37.	Mhetre Girisha Yuvraj	2537	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
38.	Mole Nikita Tanaji	2538	Nikita	Nikita	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
39.	Parit Priti Anil	2539	Parit	Parit	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
40.	Parit Haripriya A.	2540	Haripriya	Haripriya	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
Signature of teacher												



Shri Swami Vivekanand Shikshan Sanstha's
Vivekanand College Kolhapur (An Empowered Autonomous Institute)
 Department of Microbiology
Value Added Course In Microbial Quality Control In Pharmaceutical Industry

BATCH 2

Sr. No.	Teacher		SAP	SSS	VVM	mmN	SPG	SAP	SSS	VVM	mmN	Total
	Date		22/1/25	22/1/25	23/1/25	23/1/25	27/1/25	27/1/25	28/1/25	28/1/25	29/1/25	
	Time		9:00-10:00	10:00-11:00	9:00-10:00	10:00-11:00	9:00-10:00	10:00-11:00	9:00-10:00	10:00-11:00	9:00-10:00	
	Name of topic											
	Name of Student	Roll No.										
1.	Patil Joyti Suresh	2541	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab		
2.	Patil Rutuja Ravsaheb.	2542	RRPatil	RRPatil	Ab	Ab	RRPatil	RRPatil	RRPatil	RRPatil		
3.	Patil Saloni Gajkumar.	2543	SRPatil	SRPatil	SRPatil	SRPatil	Ab	Ab	SRPatil	SRPatil	SRPatil	SRPatil
4.	Patil Shreya Sunil	2544	Patil	Patil	Patil	Patil	Ab	Ab	Ab	Ab		
5.	Patil Srushti Suhas.	2545	Ab	Ab	Ab	Ab	Ab	Ab	Patil	Patil		
6.	Patil Vaishnavi Dipak	2546	Patil	Patil	Ab	Ab	Ab	Ab	Ab	Ab		
7.	Patil Vaishnavi Vasudev	2547	Ab	Ab	Ab	Ab	Ab	Ab	Patil	Patil		
8.	Pendhari Simran Mahamad.	2548	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab		
9.	Powar Samiksha Santosh	2549	Ab	Ab	Ab	Ab	Ab	Ab	SP	SP	SP	SP
10.	Salunke Vaishnavi Ranjeet.	2550	Ab	Ab	Ab	Ab	Ab	Ab	Salunke	Salunke	Salunke	Salunke
11.	Sankpal Shraddha Surendra	2551	Sankpal	Sankpal	Sankpal	Sankpal	Ab	Ab	Sankpal	Sankpal		
12.	Shaikh Jiya Ajij.	2552	Shaikh	Shaikh	Ab	Ab	Ab	Ab	Ab	Ab		
13.	Shaikh Sadiya Shakil.	2553	Shaikh	Shaikh	Ab	Ab	Ab	Ab	Ab	Ab		
14.	Shinde Samruddhi Vijay.	2554	S.V.Shinde	S.V.Shinde	S.V.Shinde	S.V.Shinde	S.V.Shinde	S.V.Shinde	Ab	Ab	S.V.Shinde	
15.	Shinde Shubham Rajendra	2555	Shinde	Shinde	Ab	Ab	Ab	Ab	Ab	Ab	Shinde	Shinde
16.	Shirodkar Soundarya Umesh.	2556	Shirodkar	Shirodkar	Ab	Ab	Ab	Ab	Ab	Ab		
17.	Sutar Shweta Prabhakar.	2557	Sutar	Sutar	Ab	Ab	Sutar	Sutar	Sutar	Sutar		
18.	Thanekar Sanika Jotiram	2558	S.T.Thanekar	S.T.Thanekar	S.T.Thanekar	S.T.Thanekar	S.T.Thanekar	S.T.Thanekar	S.T.Thanekar	S.T.Thanekar	S.T.Thanekar	
19.	Vasagade Shreya Jinendra	2559	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab		
20.	Vedpathak Bhagyashri Mahendra.	2560	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab		
21.	Vharkat Manasvi Sagar.	2561	M.S.Vharkat	M.S.Vharkat	Ab	Ab	Ab	Ab	Ab	Ab		
22.	Vhanmane Pranali Mhalapa.	2562	P.Vhanmane	P.Vhanmane	P.Vhanmane	P.Vhanmane	P.Vhanmane	P.Vhanmane	P.Vhanmane	P.Vhanmane	P.Vhanmane	P.Vhanmane
23.	Wali Rutuja Shivanand	2563	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab		
24.	Jambhale Rajvardhan Vishwas	2564	Rajambhale	Rajambhale	Rajambhale	Rajambhale	Ab	Ab	Ab	Ab		
25.	Kanekar Shruti Sandip	2565	Ab	Ab	Ab	Ab	Kanekar	Kanekar	Ab	Ab		

26.	Mhettar Tanuja Netaji	2566	Tanuja	Tanuja	Tanuja	Tanuja	(	Ab	Ab	Ab	Ab		
27.	Nikam Anushka Arvind	2567	Anushka	Anushka	Anushka	Anushka	(	Ab	Ab	Ab	Ab		
28.	Patil Prerna Mohan	2568	Prerna	Prerna	Prerna	Prerna	(	Ab	Ab	Ab	Ab		
29.	Yadav Joyti Deepak	2569	Joyti	Joyti	Joyti	Joyti	(	Ab	Ab	Ab	Ab		
30.	Yadav Riya Surendra	2570	Riya	Riya	Riya	Riya	(	Ab	Ab	Ab	Ab		
31.	Nirankar Taruna Vishnu	2571	Taruna	Taruna	Taruna	Taruna	(	Ab	Ab	Ab	Ab		
32.	Pidwani Disha Jairamdas	2572	Disha	Disha	Disha	Disha	(	Ab	Ab	Ab	Ab		
33.	Mullani Sophiya Wasimraj	2573	Sophiya	Sophiya	Sophiya	Sophiya	(	Ab	Ab	Ab	Ab		
34.	Chavan Sanika Pradeep	2574	Sanika	Sanika	Sanika	Sanika	(	Ab	Ab	Ab	Ab		
35.	Majgavkar Sanika Sagar	2575	Sanika	Sanika	Sanika	Sanika	(	Ab	Ab	Ab	Ab		
36.													
Signature of teacher													



Vivekanand College Kolhapur (An Empowered Autonomous Institute)

Department of Microbiology

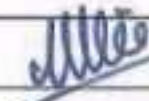
Value Added Course In Microbial Quality Control In Pharmaceutical Industry

BATCH 1

Sr. No.	Teacher		SDG	SAP	SSS	VVM	MMN	SDG	SAP	SSS	VVM	Total
	Date		3/2/25	3/2/25	4/2/25	4/2/25	5/2/25	5/2/25	6/2/25	6/2/25	10/2/25	
	Time		9:00-10:00	10:00-11:00	9:00-10:00	10:00-11:00	9:00-10:00	10:00-11:00	9:00-10:00	10:00-11:00	9:00-10:00	
	Name of topic											
	Name of Student	Roll No										
1.	Ambale Riya Sunil.	2501	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
2.	Ambale Siddhi Yuvraj.	2502	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
3.	Balugade Vaishnavi Shahaji	2503	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
4.	Belekar Siddhi Dipak	2504	Belekar	Siddhi	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
5.	Bhoje Adesh Chandrakant.	2505	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
6.	Bhosale Shruti Sachin.	2506	Sachin	Sruti	Shruti	Sachin	Sachin	Sachin	Ab	Ab	Sachin	
7.	Dalavi Trailokya Nitin.	2507	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
8.	Dalvi Janavi Ananda	2508	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
9.	Deshmukh Sanskruti Tanaji.	2509	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
10.	Divase Tanishka Rahul.	2510	Tanishka	Tanishka	Tanishka	Tanishka	Tanishka	Tanishka	Tanishka	Tanishka	Tanishka	
11.	Gaikwad Sakshi Ratan	2511	Sakshi	Ratan	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
12.	Ghosarwade Arati Ramachandra	2512	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
13.	Gurav Shreya Eknath	2513	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
14.	Gurav Varsha Tanaji.	2514	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
15.	Gutte Tukaram Dattatry	2515	Tukaram	Dattatry	Tukaram	Dattatry	Tukaram	Dattatry	Tukaram	Dattatry	Tukaram	
16.	Hajare Aishwarya Ganesh.	2516	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
17.	Halave Shubham Pandurang	2517	Shubham	Pandurang	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
18.	Haveli Veena Nagnath.	2518	Veena	Nagnath	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
19.	Jadhav Pratiksha Vasant	2519	Pratiksha	Vasant	Ab	Ab	Ab	Ab	Ab	Ab	Ab	

20.	Jamadar Alisha Nazir.	2520	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab		
21.	Jamadar Sadiya Ibrahim.	2521	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab		
22.	Jevrani Simran Anil	2522	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab		
23.	Kadam Neha Ravindra.	2523	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab		
24.	Kale Preeti Daniel.	2524	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab		
25.	Kamat Sanskruti Santosh.	2525	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab		
26.	Khot Gayatri Ashok.	2526	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab		
27.	Koli Divya Dilip	2527	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab		
28.	Korane Sakshi Bhaskar	2528	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab		
29.	Kumbhar Priyanka Dipak	2529	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
30.	Kumbhar Rutuja Suresh	2530	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
31.	Kumbhar Samiksha Sanjay	2531	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
32.	Kumbhar Sanika Arun	2532	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
33.	Kuragotagi Sonali Dhareppa.	2533	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
34.	Latte Shraddha Bahubali.	2534	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
35.	Lohar Siddhesh Nivrutti	2535	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
36.	Mali Tanuja Ajit	2536	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
37.	Mhetre Girisha Yuvraj	2537	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
38.	Mole Nikita Tanaji	2538	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
39.	Parit Priti Anil	2539	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
40.	Parit Haripriya A.	2540	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	
Signature of teacher			Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	



26.	Mhettar Tanuja Netaji	2566	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
27.	Nikam Anushka Arvind	2567	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
28.	Patil Prerna Mohan	2568	Prerna	Prerna	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
29.	Yadav Joyti Deepak	2569	Joyti	Joyti	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
30.	Yadav Riya Surendra	2570	Riya	Riya	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
31.	Nirankar Taruna Vishnu	2571	Taruna	Taruna	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
32.	Pidwani Disha Jairamdas	2572	Disha	Disha	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
33.	Mullani Sophiya Wasimraj	2573	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
34.	Chavan Sanika Pradeep	2574	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
35.	Majgavkar Sanika Sagar	2575	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
36.												
Signature of teacher												



Vivekanand College Kolhapur (An Empowered Autonomous Institute)

Department of Microbiology

Value Added Course In Microbial Quality Control In Pharmaceutical Industry

BATCH 1

Sr. No.	Teacher		MMN	SDG	VVM	MMN	MMN					Total
	Date		11/2/25	13/2/25	13/2/25	17/2/25	18/2/25					
	Time		10:00-11:00	9:00-10:00	10:00-11:00	10:00-11:00	10:00-11:00					
	Name of topic											
	Name of Student	Roll No										
1.	Ambale Riya Sunil.	2501	Ab	Ab	Ab	Ab	Ab					
2.	Ambale Siddhi Yuvraj.	2502	Ab	Ab	Ab	Ab	Ab					
3.	Balugade Vaishnavi Shahaji	2503	Balugade	Balugade	Ab	Ab	Ab					
4.	Belekar Siddhi Dipak	2504	Ab	Ab	Ab	Ab	Ab					
5.	Bhoje Adesh Chandrakant.	2505	Ab	Ab	Ab	Ab	Ab					
6.	Bhosale Shruti Sachin.	2506	Sruti	Sruti	Sruti	Sruti	Ab					
7.	Dalavi Trailokya Nitin.	2507	Ab	Ab	Ab	Ab	Ab					
8.	Dalvi Janavi Ananda	2508	Ab	Ab	Ab	Ab	Ab					
9.	Deshmukh Sanskruti Tanaji.	2509	Deshmukh	Deshmukh	Ab	Ab	Ab					
10.	Divase Tanishka Rahul.	2510	Ab	Ab	Divase	Divase	Ab					
11.	Gaikwad Sakshi Ratan	2511	Ab	Ab	Ab	Ab	Ab					
12.	Ghosarwade Arati Ramachandra	2512	Arati	Arati	Ab	Ab	Ab					
13.	Gurav Shreya Eknath	2513	Ab	Ab	Ab	Ab	Ab					
14.	Gurav Varsha Tanaji.	2514	Gurav	Gurav	Gurav	Gurav	Gurav					
15.	Gutte Tukaram Dattatry	2515	Gutte	Gutte	Gutte	Gutte	Gutte					
16.	Hajare Aishwarya Ganesh.	2516	Ab	Ab	Ab	Ab	Ab					
17.	Halave Shubham Pandurang	2517	Shubham	Shubham	Shubham	Shubham	Ab					
18.	Haveli Veena Nagnath.	2518	Haveli	Haveli	Ab	Ab	Ab					
19.	Jadhav Pratiksha Vasant	2519	Pratiksha	Pratiksha	Ab	Ab	Pratiksha					

20.	Jamadar Alisha Nazir.	2520	Ab	Ab	Ab	Ab	Ab					
21.	Jamadar Sadiya Ibrahim.	2521	Ab	Ab	Ab	Ab	Ab					
22.	Jevrani Simran Anil	2522	Ab	Ab	Ab	Ab	Ab					
23.	Kadam Neha Ravindra.	2523	Ab	Ab	Ab	Ab	Ab					
24.	Kale Preeti Daniel.	2524	Ab	Ab	Ab	Ab	Ab					
25.	Kamat Sanskruti Santosh.	2525	Ab	Ab	Ab	Ab	Ab					
26.	Khot Gayatri Ashok.	2526	Ab	Ab	Ab	Ab	Ab					
27.	Koli Divya Dilip	2527	Ab	Ab	Ab	Ab	Ab					
28.	Korane Sakshi Bhaskar	2528	Ab	Ab	Ab	Ab	Ab					
29.	Kumbhar Priyanka Dipak	2529	Ab	Ab	Ab	Ab	Ab					
30.	Kumbhar Rutuja Suresh	2530	Ab	Ab	Ab	Ab	Ab					
31.	Kumbhar Samiksha Sanjay	2531	Ab	Ab	Ab	Ab	Ab					
32.	Kumbhar Sanika Arun	2532	Ab	Ab	Ab	Ab	Ab					
33.	Kuragotagi Sonali Dhareppa.	2533	Ab	Ab	Ab	Ab	Ab					
34.	Latte Shraddha Bahubali.	2534	Ab	Ab	Ab	Ab	Ab					
35.	Lohar Siddhesh Nivrutti	2535	Ab	Ab	Ab	Ab	Ab					
36.	Mali Tanuja Ajit	2536	Ab	Ab	Ab	Ab	Ab					
37.	Mhetre Girisha Yuvraj	2537	Ab	Ab	Ab	Ab	Ab					
38.	Mole Nikita Tanaji	2538	Ab	Ab	Ab	Ab	Ab					
39.	Parit Priti Anil	2539	Ab	Ab	Ab	Ab	Ab					
40.	Parit Haripriya A.	2540	Ab	Ab	Ab	Ab	Ab					
Signature of teacher												



Vivekanand College Kolhapur (An Empowered Autonomous Institute)

Department of Microbiology

Value Added Course In Microbial Quality Control In Pharmaceutical Industry

BATCH 2

Sr. No.	Teacher		mmN	BDG	VVM	mmN	mmN					Total
	Date		11/2/25	13/2/25	13/2/25	17/2/25	18/2/25					
	Time		10:00-11:00	9:00-10:00	10:00-11:00	10:00-11:00	10:00-11:00					
	Name of topic											
	Name of Student	Roll No.										
1.	Patil Joyti Suresh	2541	Ab	Ab	Ab	Ab	Ab					
2.	Patil Rutuja Ravsaheb.	2542	Patil	Patil	Ab	Ab	Ab					
3.	Patil Saloni Gajkumar.	2543	Patil	Patil	Ab	Ab	Ab					
4.	Patil Shreya Sunil	2544	Patil	Patil	Patil	Patil	Patil					
5.	Patil Srushti Suhas.	2545	Patil	Patil	Ab	Ab	Patil					
6.	Patil Vaishnavi Dipak	2546	Ab	Ab	Ab	Ab	Ab					
7.	Patil Vaishnavi Vasudev	2547	Ab	Ab	Ab	Ab	Ab					
8.	Pendhari Simran Mahamad.	2548	Ab	Ab	Ab	Ab	Ab					
9.	Powar Samiksha Santosh	2549	Ab	Ab	Patil	Patil	Ab					
10.	Salunke Vaishnavi Ranjeet.	2550	Ab	Ab	Salunke	Salunke	Ab					
11.	Sankpal Shraddha Surendra	2551	Ab	Ab	Ab	Ab	Ab					
12.	Shaikh Jiya Ajij.	2552	Ab	Ab	Ab	Ab	Ab					
13.	Shaikh Sadiya Shakil.	2553	Ab	Ab	Ab	Ab	Ab					
14.	Shinde Samruddhi Vijay.	2554	S.V.Shinde	S.V.Shinde	S.V.Shinde	S.V.Shinde	S.V.Shinde					
15.	Shinde Shubham Rajendra	2555	Ab	Ab	Ab	Ab	Ab					
16.	Shirodkar Soundarya Umesh.	2556	Ab	Ab	Ab	Ab	Ab					
17.	Sutar Shweta Prabhakar.	2557	Patil	Patil	Ab	Ab	Patil					
18.	Thanekar Sanika Jotiram	2558	S.J.Thanekar	S.J.Thanekar	S.J.Thanekar	S.J.Thanekar	S.J.Thanekar					
19.	Vasagade Shreya Jinendra	2559	Ab	Ab	Ab	Ab	Ab					
20.	Vedpathak Bhagyashri Mahendra.	2560	Ab	Ab	Ab	Ab	Ab					
21.	Vharkat Manasvi Sagar.	2561	Ab	Ab	Ab	Ab	Ab					
22.	Vhanmane Pranali Mhalappa	2562	Vhanmane	Vhanmane	Ab	Ab	Vhanmane					
23.	Wali Rutuja Shivanand	2563	Ab	Ab	Ab	Ab	Ab					
24.	Jambhale Rajvardhan Vishwas	2564	Ab	Ab	Ab	Ab	Ab					
25.	Kanekar Shruti Sandip	2565	Patil	Patil	Ab	Ab	Patil					

26.	Mhettar Tanuja Netaji	2566	AB	AB	AB	AB	AB					
27.	Nikam Anushka Arvind	2567	AB	AB	AB	AB	AB					
28.	Patil Prerna Mohan	2568	AB	AB	AB	AB	AB					
29.	Yadav Joyti Deepak	2569	AB	AB	AB	AB	AB					
30.	Yadav Riya Surendra	2570	AB	AB	AB	AB	AB					
31.	Nirankar Taruna Vishnu	2571	AB	AB	AB	AB	AB					
32.	Pidwani Disha Jairamdas	2572	AB	AB	AB	AB	AB					
33.	Mullani Sophiya Wasimraj	2573	AB	AB	AB	AB	AB					
34.	Chavan Sanika Pradeep	2574	AB	AB	AB	AB	AB					
35.	Majgavkar Sanika Sagar	2575	AB	AB	AB	AB	AB					
36.												
Signature of teacher												



Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

Department of Microbiology

Value Added Course 2024-25

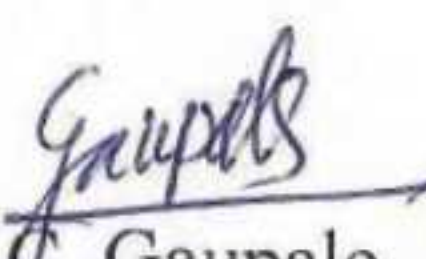
“Microbial Quality Control In Pharmaceutical Industries”

NOTICE

All the students of value-added course “Microbial Quality Control in Pharmaceutical Industries”, Department of Microbiology are hereby informed that the theory examinations will be conducted on Thursday, **17th April, 2025**.

Sr. No.	Title of Paper	Date	Time
1	Microbial Quality Control In Pharmaceutical Industries	17/04/2025	10.00 a.m. -1. 00p.m




Dr. T. C. Gaupale
HC HEAD
DEPARTMENT OF MICROBIOLOGY
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)

Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

Department of Microbiology

Value Added Course

"Microbial Quality Control In Pharmaceutical Industries"

Theory Examination

2024-2025

Date – 17 April 2025

Total marks- 100

Time- 3Hrs

- Instructions: 1) All questions are compulsory
2) Draw neat labeled diagram wherever necessary.
3) Figures to the right indicates full marks

Q.1 Rewrite the sentence by choosing most correct alternative from the given alternatives.

20

1. The written procedures for laboratory program are known as _____.
a) Good laboratory practices b) Good Microbiological practices
c) Good Manufacturing practices d) Standard operating procedure
2. _____ is a person who initiates and supports non-clinical laboratory study and submit report to FDA.
a) Study director b) Sponsor c) Facility Manager d) None of above
3. Pharmacopoeia word is derived from pharmakon & poeia means _____.
a) Drug; to make b) Drug; to sale c) Drug; to purchase d) drug; to store
4. The first edition of the Indian Pharmacopoeia (I.P) was published under the chairmanship of _____.
a) Dr. B. N. Ghosh b) Dr. B. Mukherji c) Dr. Nityanand d) Col. R. N. Chopra.
5. The schedule for Good Manufacturing practices and requirements of factory premises for the manufacture belong to _____.
a) Schedule X b) Schedule W c) Schedule M d) Schedule L
6. _____ is cleanest room in pharmaceutical industries.
a) ISO Class 8 b) ISO Class 7 c) ISO Class 6 d) ISO Class 5
7. _____ biosafety cabinet is used while handling low risk biological material.
a) Class I b) Class II c) Class III d) Class IV
8. The workers must wear PPE kit when working in _____ biosafety cabinet.
a) Class I b) Class II A c) Class II B d) Class III
9. Body parts, blood and urine are categorized under _____ type of waste.
a) Pathological waste b) Radioactive waste c) Genotoxic waste d) Non-hazardous waste
10. The molecule which are to be measured by using biosensors are known as _____.
a) Biological molecules b) Analyzers c) Transducer d) Processor
11. _____ biosensor measures change in electric conductivity during a reaction.
a) Calorimeter b) Conductometric c) Amperometric d) Potentiometric
12. The colorimetric biosensor is used to measure change in _____ during reaction.
a) Current b) potential difference c) heat d) electric conductivity

13. Anatomical waste like tissues, organs and cultured samples are discarded by _____ process.
a) Shredding b) Incineration c) Land-filling d) Burning
14. Instrument calibration in the pharmaceutical industry is important _____.
a) To ensure accuracy and reliability of test results b) To increase production speed
c) To reduce energy consumption d) To improve employee morale
15. The common instruments that require calibration in pharmaceutical manufacturing are _____.
a) Computers and office equipment b) Packaging machines
c) Balances, thermometers, spectrophotometers & pH meters d) Cleaning equipment
16. LAL test is used to determine presence of _____ in pharmaceutical product.
a) Endotoxin b) Virus c) Exotoxin d) Viable bacteria
17. Sterility test is used to determine presence of _____ in pharmaceutical product.
a) Endotoxin b) Virus c) Inactive bacterial product d) Viable bacterial count
18. _____ linked chromogen is used in Chromogenic LAL test as reagent
a) p- aminobenzoic b) p-nitroaniline c) p-aminoaniline d) p- nitropheniline
19. In sterility testing to determine the presence of anaerobic organism _____ medium is used.
a) Fluid thioglycolate b) Alternative thioglycolate medium
c) Nutrient agar d) Mannitol salt agar
20. _____ present in amebocyte lysate react with endotoxin to form clot.
a) Coagulogen b) Collagen c) Factor B d) Factor D

Q.2 Attempt any one -

20

1. Discuss in detail Instrument calibration, the need and frequency of instrument calibration.
2. Discuss in detail biosafety levels.

Q.3 Attempt any four-

40

1. What is Endotoxin? Explain in detail LAL test.
2. Discuss in detail classification of cleanrooms.
3. Give a detail account on Good laboratory practices.
4. Describe biosensors with its types and applications.
5. Explain in detail Good Manufacturing Practices.
6. Discuss in detail Calibration of pH meter and Colorimeter.

Q.4 Attempt any four.

20

1. Good microbiological practices
2. Indian Pharmacopoeia
3. Sterility test
4. Color coding in biohazardous waste
5. Mechanism and advantages of biosensor
6. Monograph





VIVEKANAND COLLEGE, KOLHAPUR. (Autonomous)

Information to be filled by Student

(विद्यार्थ्याने भरावयाचा रकाना)

Day and Date: 17/4/25

Language of Answer: English

Examination: COC

Question Paper Code No.: _____

Subject: Adon Course Microbiology
[Microbial Quality Control in
Pharmaceutical Industries]

Paper No.: _____

Section: _____

Jr. Supervisor's Sign: [Signature]

Students Sign: [Signature]

Seat No.: 2570

Seat No. in words: two thousand

Five hundred seventy

06202

Centre VCK

(Office Use) Code No.: _____

Q. No.	Examiner Marks	Moderator Marks
1	16	
2	17	
3	38	
4	15	
5		
6		
7		
8		
9		
10		
11		
12		
Total	86	
Signature	<u>[Signature]</u>	

Q. C. - O. K.

IMPORTANT

As per Maharashtra Act No. XXXI of 1982 (7 & 8) whoever is found in or near an examination hall by the invigilator or any other person appointed to supervise the conduct of the examination, copying answers to the question paper set at the examination, from any book, notes or answer papers of other candidates, of appearing at the examination for any other candidates or using any other unfair means, shall, on conviction, be punished with imprisonment for a term which may extend to six months, or with fine which may extend to five hundred rupees or with both.

Whoever abets any offence punishable under this Act shall be punishable with the punishment provided for the offence.

सूचना : विद्यापीठ नियमानुसार जो कोणी परीक्षा हॉलजवळ किंवा हॉलमध्ये पर्यवेक्षकांना किंवा परीक्षेसाठी नेमलेल्या कर्मचाऱ्यांना उत्तरांची पुस्तक नोट्स किंवा अन्य विद्यार्थ्यांच्या उत्तरपत्रिकेतून नकल करताना आढळून येईल किंवा जवळ परीक्षा गैरव्यवहारासाठी वापरता येईल असे आक्षेपार्ह साहित्य बाळगता असेल तर सदरची बाब परीक्षा प्रमाद मानून संबंधित व्यक्ति शिक्षेस पात्र राहील.

06	Section	Q. No.																		
	Marks																			

Q. No.

Q. No.

=

- Instrument Calibration is used to determine accuracy of instrument. It take reading of instrument and compare with know instrument reading i.e Standard.
- Instrument or equipment measure reading which compare with Standard.
- It is important to know that reading of instrument i.e Standard vary from one country to another country it depend on the industry.

Scope or purpose of calibration.

- 1) To check accuracy of instrument.

In After calibration instrument gives correct reading we have to check that. Because as time passes it gives faulty reading. Calibration helps to give accurate reading by comparing with standard.

- 2) To detect error and correct it:
Calibrate detect an error in instrument & correct it by repairing.

- 3) To match Standard:
Different country have their own rule and

07	Section	Q. No.	2.1																	
	Marks		17																	

Q. No.

Q. No.

Standard. So Calibration help to match the international reading.

- 4) To ensure consistency and Reliability:
After proper calibration done instrument give result in consistency which increase trust in instrument reading.

- 5) To maintain product quality:
If calibration gives correct measurement which produce good quality. If instrument is faulty then it gives incorrect measurement which lead to poor quality product. So calibration help to make sure that it make instrument for proper work.

- 6) For safety purpose:

When we take incorrect measurement or in same lab due to incorrect measurement it cause accident. So to prevent that calibration help to take accurate reading which prevent accidents and make people safe.

- 7) Save money and time:
When due to false measurement a faulty product is produce. So there is so many time wasted and we have to make again that product. So calibration help to give correct measurement and produce correct product and save money and time.

08	Section	Q. No.																		
	Marks																			

Y. Pr.
Q. No.

- What is Calibration of instrument?
Calibration of instrument is that gives accuracy and reliability of test result.

□ Frequency of instrument Calibration:

- Frequency of instrument calibration is depend on the How much tendency to drift from true measurement.

- It help to measure each and every single instrument.

□ When instrument Calibration is required:

- Before new instrument use Calibration of instrument is required.

- Before or after use of critical measurement Calibration of instrument is necessary.

- After Short circuit Calibration of instrument is require.

- Some instrument require Calibration before start.

- After Calibration Check the instrument that it gives correct reading or not.

□ Objective of Instrument Calibration:

- To detect accuracy of instrument calibration.

- To check transability of instrument Calibration.

	Section	Q. No.																		09
	Marks																			

Y. Pr.
Q. No.

Important of instrument Calibration:
Calibration of instrument is important for gives correct reading.

- It help to maintain instrument.
- It gives correct test reading.

□ Calibration of pH meter:

- Turn on pH meter.

- Rinse the pH probe by distilled water to clean it use buffer solution like pH 4, pH 7. and pH 10.

- Probe take in buffer solution first i.e. pH 7 wait for proper stable of reading.

- Press the calibrate.

- Rinse the probe by distilled water to clean it. Then again probe place in buffer solution pH 4.

- Wait until proper stable reading. Press the calibrate.

- Then probe again Rinse the probe by distilled water.

- Now place in pH 10 to give more accuracy and after that clean it.

- Now your pH meter is calibrate and ready to use.

□ Calibration of colorimeter:

- Turn on colorimeter.

- make a blank solution.
- take that blank solution in cuvette.
- Then place that cuvette in colorimeter.

Section	Q No	1	2	3	4	5	6	7	8	9	10
10	Q No										
	Marks										

Q. No.

- Set the wavelength.
- Set absorbance at 0 and transmittance at 100.
- then if it is necessary calibrate the instrument.
- Then take of that blank solution and add another cuvette which have sample.
- And take reading of that.

Q3.

Q. No.

- Cleanroom is the space in which controlled environment for airborne particles, microbes and dust.
- Clean room has few parameters like:
Temperature
Humidity
Air flow
Air pressure
light.

- Clean room prevent entry of contamination from

- person :- skin, hairs, cloths.
- process :- Chemical, heat, electricity.
- Facility :- Floor, wall.
- Air flow :- dust, particles, microbes.

Section	Q No	1	2	3	4	5	6	7	8	9	10
	Q No										
	Marks										

Q. No.

- Clean room has a critical area which means area under laminar air flow expose our product and it can affect on our product because of sterility.
- It also include HVAC (heating, ventilation and air conditioning)
- which includes,
Temperature = 20 - 24°C
Humidity = 30% relative - 60%
pressure = A positive pressure is created
ventilation = Clean room replace air cars have.

- Clean room also include class room which means, in a room there is no presence of microbes or particles which is suitable for experiment.

- Cleanroom is classified as follows:
1] ISO air particulate classification
2] EU air particulate classification
3] microbes classification
4] EU air microbes classification

- 1] ISO air particulate classification:
ISO means International Standard organization
It include ISO 5 to ISO 9 class
Here ISO 5 is cleanest room and ISO 9 is least clean.

[illegible]

Q. No.		Q. No.	
Class	0.5 km	5 km	
Active Sampling	7	3	
Passive Sampling	10	5	
	50		

- Active Sampling occurs on open agar plate which

expose to environment and the

Excessive Sampling increases air volume

Handwritten: *Handwritten notes*

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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T1 include Grade A to Grade D.
 T1 involve Air Sampling (active), Settle Plate
 (passive), Surface Sample (Contact Plate)
 and per SOP (glove plate).
 Here Grade A is cleanest & Grade D is less
 cleanest.

	Sampling	Size	Grade A
✓	17	17	
✓	17	17	

Grade B	10	5	5	Specific

Grade C	100	50	50	Specific
Grade D	200	100	50	

[illegible]

$$\delta \left[\frac{1}{2} \int dx \left(\dot{\phi}^2 + \frac{1}{2} (\nabla \phi)^2 + V(\phi) \right) \right]$$

Q. No.

Q. No.

- Q. No. _____
- 1) Good Laboratory Practices is official regulation that regulate by FDA.
- Good laboratory practices is defined as Set of ~~rules~~ that produce or operating in quality or good result called as GLP.
 - Good laboratory Practices include following:
- 1) Personal:-
- In GLP require enough person. and qualified person.
 - For this person should be qualified.
- 2) Maintenance and Calibration:-
- For proper instrument working, Calibration of instrument is required.
 - Instrument have to maintain properly.
- 3) Reagent / Material Certificate:-
- Reagent or material requires a proper labelling
 - It has open of date.
 - Expiry date.
 - And it has a proper labeling for understanding.
- 4) SOP:-
- SOP mean Standard operating procedure.
 - The written procedure for laboratory program is known as SOP.
 - SOP includes maintenance, regulation, ~~produce~~

15

Q. No.

Q. No.

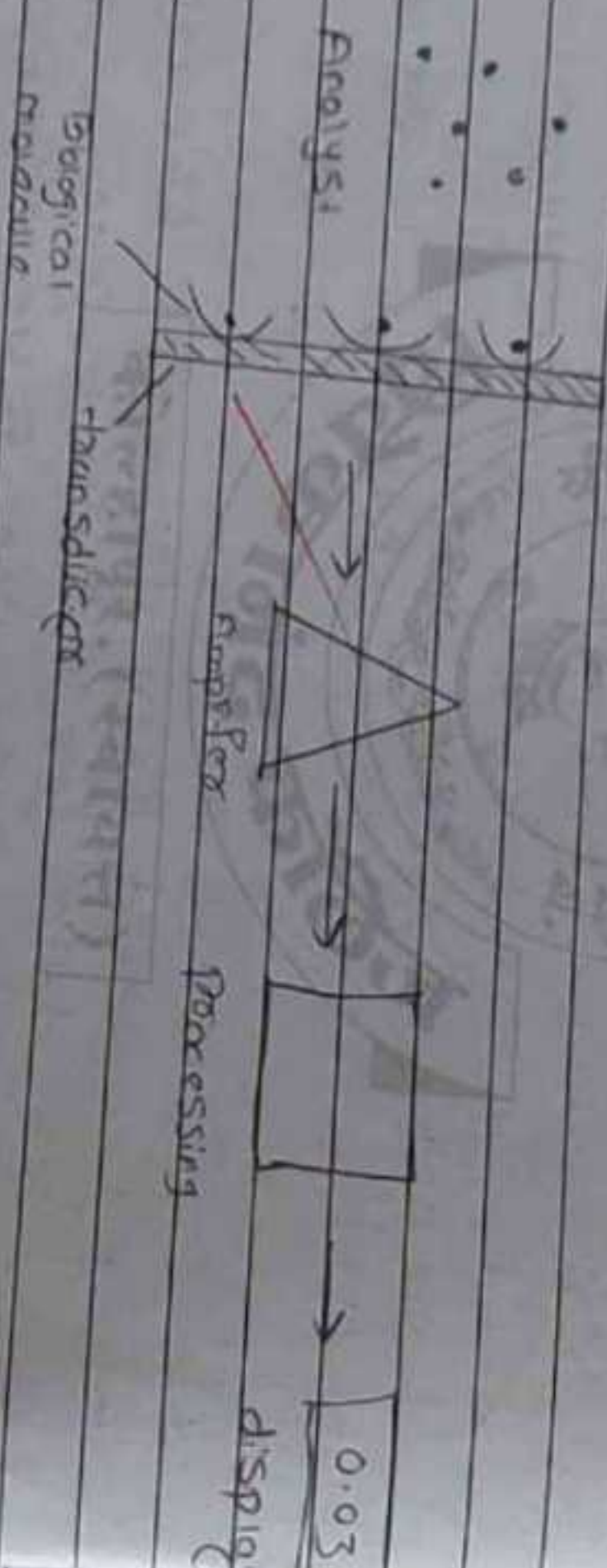
- procedure.
 - It is give answer about when, how, what, where to use.
 - If any fault occur it gives how to handle it.
- 5) Analysis Certification:
- person should be have training certificate for proof.
 - It should be experienced.
- 6) Laboratory certification:-
- Laboratory certification normally done by external agency
 - They check space, hygiene, instrument
- 7) Documentation:
- you should keep document of each and every data for a back up plan
 - Document kept for 5 years atleast.
 - Keeping document safe is depend on the situation of company

$$\frac{834}{4}$$

Q. No.

Q. No.

- Biosensor is analytical device which measures concentration of analyte.
Biosensor has biological molecule which combine with analyte and produce some physical change.
Physical change may be:
production or absorption of heat.
movement of electron.
Then this physical change is amplified by amplifier and it gives reading on display.



- Analyst include molecules whose concentration we have to measure.
- eg: blood, ~~O₂~~, urine.
- ~~An~~ Biological molecule combine or react with Analyst and produce physical change.
- eg: Antibody, enzyme.
- Transducer measure electric current
- eg: Heat (thermal), electrical.

11. अथ, एतत्तु त्वत्तु त्वत्तु त्वत्तु त्वत्तु

— *Phragmites* sp. *arabica* var.

VIVEKANAND COLLEGE, KOLHAPUR.

(Empowered Autonomous)

SUPPLIMENT

Jr. Supervisor's Sign

Students Sign: Byrd

Seat No. : 2570

Seal No. in words:

Supplement No. 1

30087

Centre ✓ CK

- Scientists find out biosensor for measure oxygen.
Hence called as Clark devise.
This biosensor is discovered by Leland. Clark.

Type of biosensor:

- 1) Calorimetric biosensor.
It is used to measure change in heat.
- 2) Potentiometric biosensor:
It is used to measure change in oxidation and reduction reaction i.e redox reaction.
eg: Urea biosensor

- 3) Amperometric biosensor:
 - It measure flow of electron during reaction
 - eg: Glucose biosensor.
- 4) Conductometric biosensor:
 - It measure or used to measure change in ionic conductivity.

5) Acoustic wave biosensor:

It measure change in pressure or force.
eg: Cocaine biosensor.

6) Optical biosensor:

It measure change in light.

* Application of biosensor:

1) In Food industry:

It is used to detect pathogen present in food or not.

Presence of E. coli in vegetable indicate contamination of fecal.

Enzyme biosensor is used in dairy industry

2) In medical field:

It is used Pregnancy kit.

It is used to detect fever.

eg: Glucose biosensor.

It is also used in Cardiovascular biosensor.

3) Environmental monitoring:

It control Soil, water, air microbes.

5) =

- Good Manufacturing practices. It is published by medical or health authority.

GMP has basic information:

1) Clear manufacturing:

Manufacturing process is clear to follow and make.

2) Easy to understand:

Write process in simple language which is easy to understand and follow.

3) Person training:

newly add persons have to give training persons are qualified for this job.

- Good manufacturing practices involve following principle:

1) Documentation:

Documentation is must important what do you do during Good laboratory practices.

It important because if there is no prove then no one can believe in you.

- Document keep Safety for back plans. when some on take action of manufacturing it help for that.

2) SOP:

SOP means Standard operating procedure. It is hand written for proper cleaning.

to follow procedure, if any fault is detected give procedure how to correct it.

- SOP has many types like,
- General SOP: How to handle

- Require original documents

- Personal Sops
- ~~Primitives Sops~~
- Material Sops

3) Master formula:-
Every compound

- Specific Product
 - Master Formula
- to understand easy to people

batch report.

- Every batch should have a blank page for what would happen to write it. It became easy to the next batch.
- I follow a master D

5] Batch number: -

- Each product has different batch number. It is easy to distribution.

विदेकानन्द कॉलेज, कोटहापूर. (अधिकस्पर्धालय रचायात)



Signature of Jr. Super.

38871

— ५११३०४१ —

Practical Examination in

at the -

उम्मीदवारों का आसन क्रमांक
(Candidate's Seat No.) 2570

उपेक्षायां तुलना

१. प्रश्न काळजीपूर्वक वाचा आणि त्याप्रमाणे विचारलेला प्रयोग करा.
२. उपाकरणाच्या वाचाराबाबत तुम्हांला काही माहीत नसेल तर परीक्षक विना प्रयोगातून सुरुवात करता करता विचारवाणी करू शकता. कोणताही विद्युतप्रयोग करण्यापूर्वी, प्रवाह पुरविलेली सर्व उपकरणे आणि सर्व "कनेक्शन" भीट पाहून घेऊन संकेंद्रित वसनाची भीटनेटची कार्यवाही करावयाची निरात आवश्यकता आहे आणि ध्यानंर मुठ काम घालू. कार्यवाहिवाची परवानगी मिळविले उपरांतच आहे.
३. सर्व निरीक्षणे कोरकत्रा तत्परात भरावी. माल्या सर्व नावना आणि नियंर हे रूप निराताना म्हावायव्वा आणि सारखून मंडरितनेर अन्वने हे निरातच आहे.
४. प्रारंभिक विना आणिम निरीक्षणात संस्थावाचक आकडे एकावर एक लिहू नयेत. जर मिळिलेला कोणताही आकडा नव्वा असेल तर त्यावर एक र्म आदून पाहिले असलेला आकडा त्यावाचनवर लिहा. प्रयोगाकडेन बाहेर पडण्यापूर्वी आतले टेबल घासल्या स्थितिर आहे काही खात्री करा.

INSTRUCTIONS TO CANDIDATES

1. Read the question carefully and perform the experiment as required.
 2. If there by anything the apparatus that you do not know, ask the examiner or the laboratory assistant to help you.
 3. Before doing any electrical experiment, it is absolutely essential that you make a neat working sketch of all apparatus actually provided and of the necessary connection and obtain the examiner's permission to proceed.
 4. Express all observations in a tabular form. It is also desirable that all intermediate calculations and results should be entered as neatly and clearly as possible.
 5. No numerical figures should be written over either in the preliminary or final observations. If any figure is thought to be discarded it should be run through and the desired figure written near to it.
 6. Please see that your table is in good order before you leave the laboratory.
- (देखत लेखनात सुरक्षा करा.) (Begin writing here.)

Y. Fr.
Q. No.

8) Quality control:-

- There is person in unit of Quality control in every industry.
- They help to check the product quality, manufacturing and give report or result to authorities.

3) processing & final product:-

- New product use after the old product.
- If there is expire of any product then it can not sold.

[illegible]

11	847
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- Autoclave your media or liquid broth for sterilization.
 - Always handwash or hand disinfection by alcohol.
 - Make familiar to lab like eye wash basin.
 - First aid box, basin.
 - If any spill or spread spread a media or liquid immediately report your lab assistance.
 - If any injury occur then immediately take with the lab assistance.
 - Do not spread any media or liquid at wash basin.
 - After work clean your workstation properly.
- OS
- 34.
- 4) =
- biohazardous waste is waste of hospital which is harmful for environment.
 - According to WHO:
 - biohazardous waste = 90% - 75%.
 - non biohazardous waste = 10 - 25%.
 - ~~from~~ biohazardous waste has to label properly and biohazardous waste has to proper disposal.
 - disrupt it properly for proper segregation.
 - It has various colour or code for segregation.
 - we must have to follow that rule.

03

Q. No. 1

Colour	Container	Waste	Incineration
1) Yellow.	Plastic bag	Anatomical waste	Incineration
2) Red	Plastic bag & disinfection bag.	Microbiological & histological waste	Shedding
3) Blue	Puncture free, Plastic bag.	Sharps	Shedding
4) Black	Plastic bag	domestic waste	landfilling
5) Brown	Plastic bag	Pharmaceutical waste	landfilling
6) Yellow marked with Sharp	Puncture free, Plastic bag.	Sharps	Shredding
7) Yellow marked with highly Infectious	Puncture free, Strong leak proof, Plastic bag.	Highly toxic materials	Autoclave.

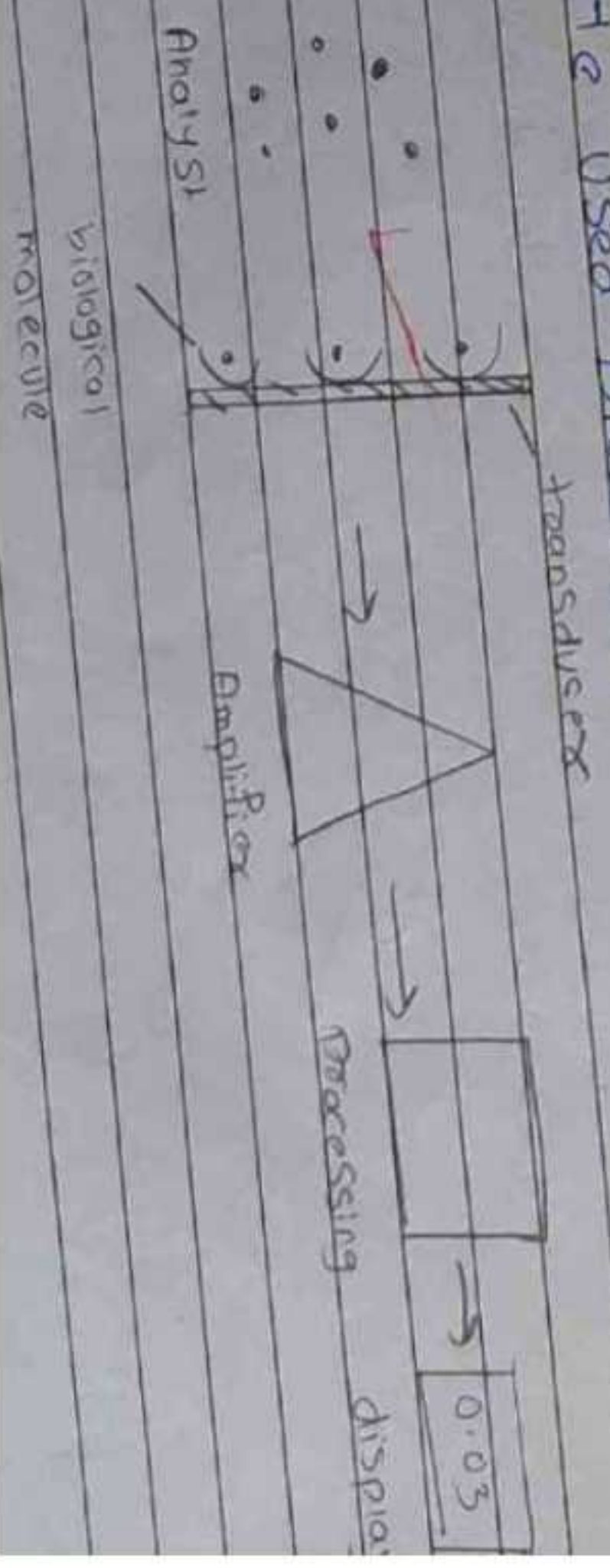


VIVEKANAND COLLEGE, KOLHAPUR.
(Empowered Autonomous)

SUPPLIMENT

Jr. Supervisor's Sign: _____
 Students Sign: Shyamsundar
 Seat No.: 405 2570
 Seat No. in words: _____
 Supplement No.: 30084
 Centre V.C.K. _____

15) Biosensor is analytical device which measure concentration of analyt. Biosensor has biological molecule which combine or react with analyt & produce a physical change. Change is detected by amplifier which gives reading to display. First time discover the scientist Leland Clark biosensor. He used Biosensor for detection of oxygen.



02

Section

Q. No.

Marks

Q. 5)

Mechanism of biosensor.

Q. No.

- It include Analyst, Biological molecule, Transducer.
- Analyst: It include molecule whose concentration have to measure eg: blood, O_2 , urine.
 - Biological molecule combine or react with Analyst and produce physical change.
eg: Antibody, enzyme.
 - Transducer measure electrical current.
eg: Thermal electrical.
 - Analyst react with biological molecule which produce same physical change.
 - Transducer detect it and convert it into electrical signal.
 - This electrical signal amplified by amplifier.
 - And it send to display.

Advantage:-

- It is Specific
- It uses small amount of sample.
- It require small amount of reagent for calibration.
- It is used in detection of diabetes like various processes.

05

Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

Department of Microbiology (UG)

Academic Year 2024-25

Value Added Course in

“Microbial Quality Control in Pharmaceutical Industries”

Result summary

Date : 17/04/2025

Time: 10:00-1:00pm

Sr. no	Name of students	Roll No.	Marks
1.	Ambale Riya Sunil.	2501	37
2.	Ambale Siddhi Yuvraj.	2502	36
3.	Balugade Vaishnavi Shahaji	2503	45
4.	Belekar Siddhi Dipak	2504	77
5.	Bhoje Adesh Chandrakant.	2505	62
6.	Bhosale Shruti Sachin.	2506	71
7.	Dalavi Trailokya Nitin.	2507	45
8.	Dalvi Janavi Ananda	2508	38
9.	Deshmukh Sanskruti Tanaji.	2509	36
10.	Divase Tanishka Rahul.	2510	60
11.	Gaikwad Sakshi Ratan	2511	46
12.	Ghosarwade Arati Ramachandra	2512	35
13.	Gurav Shreya Eknath	2513	35
14.	Gurav Varsha Tanaji.	2514	21
15.	Gutte Tukaram Dattatry	2515	39
16.	Hajare Aishwarya Ganesh.	2516	43
17.	Halave Shubham Pandurang	2517	Ab
18.	Haveli Veena Nagnath.	2518	47
19.	Jadhav Pratiksha Vasant	2519	58
20.	Jamadar Alisha Nazir.	2520	41
21.	Jamadar Sadiya Ibrahim.	2521	42
22.	Jevrani Simran Anil	2522	35
23.	Kadam Neha Ravindra.	2523	54
24.	Kale Preeti Daniel.	2524	60
25.	Kamat Sanskruti Santosh.	2525	60
26.	Khot Gayatri Ashok.	2526	51
27.	Koli Divya Dilip	2527	36
28.	Korane Sakshi Bhaskar	2528	53
29.	Kumbhar Priyanka Dipak	2529	35

30.	Kumbhar Rutuja Suresh	2530	55
31.	Kumbhar Samiksha Sanjay	2531	35
32.	Kumbhar Sanika Arun	2532	39
33.	Kuragotagi Sonali Dhareppa.	2533	59
34.	Latte Shraddha Bahubali.	2534	35
35.	Lohar Siddhesh Nivrutti	2535	37
36.	Mali Tanuja Ajit	2536	35
37.	Mhetre Girisha Yuvraj	2537	51
38.	Mole Nikita Tanaji	2538	41
39.	Parit Priti Anil	2539	35
40.	Parit Haripriya A.	2540	35
41.	Patil Joyti Suresh	2541	35
42.	Patil Rutuja Ravsaheb.	2542	39
43.	Patil Saloni Gajkumar.	2543	43
44.	Patil Shreya Sunil	2544	49
45.	Patil Srushti Suhas.	2545	71
46.	Patil Vaishnavi Dipak	2546	Ab
47.	Patil Vaishnavi Vasudev	2547	71
48.	Pendhari Simran Mahamad.	2548	35
49.	Pawar Samiksha Santosh	2549	35
50.	Salunke Vaishnavi Ranjeet.	2550	52
51.	Sankpal Shraddha Surendra	2551	59
52.	Shaikh Jiya Ajij.	2552	75
53.	Shaikh Sadiya Shakil.	2553	81
54.	Shinde Samruddhi Vijay.	2554	66
55.	Shinde Shubham Rajendra	2555	41
56.	Shirodkar Soundarya Umesh.	2556	49
57.	Sutar Shweta Prabhakar.	2557	36
58.	Thanekar Sanika Jotiram	2558	35
59.	Vasagade Shreya Jinendra	2559	35
60.	Vedpathak Bhagyashri Mahendra.	2560	47
61.	Vharkat Manasvi Sagar.	2561	39
62.	Vhanmane Pranali Mhalapa.	2562	60
63.	Wali Rutuja Shivanand	2563	37
64.	Jambhale Rajvardhan Vishwas	2564	60
65.	Kanekar Shruti Sandip	2565	56
66.	Mhettar Tanuja Netaji	2566	77
67.	Nikam Anushka Arvind	2567	69
68.	Patil Prerna Mohan	2568	73
69.	Yadav Joyti Deepak	2569	64
70.	Yadav Riya Surendra	2570	86
71.	Nirankar Taruna Vishnu	2571	78
72.	Pidwani Disha Jairamdas	2572	67
73.	Mullani Sophiya Wasimraj	2573	62
74.	Chavan Sanika Pradeep	2574	41
75.	Majgavkar Sanika Sagar	2575	76



Shri Swami Vivekanand Shikshan Sanstha's
Vivekanand College, Kolhapur (An Empowered Autonomous Institute)
Department of Microbiology
In Collaboration with IQAC

Add-on course (2024-2025)
Name of the course – “Microbial Quality Control in Pharmaceutical Industries”

Name of Student: Miss. Shaikh Sadiya Shakil

Exam Seat No.– 2553

	Theory	Grand Total	Percentage (%)	Remark
Max. Marks	100	100	81	Passed with Distinction
Min. Marks for passing	35	-		
Marks Obtained	81	81		



Ms. M. M. NADKARNI
Co-Ordinator



Dr. R. R. KUMBHAR
PRINCIPAL
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)



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VIVEKANAND COLLEGE, KOLHAPUR

(AN EMPOWERED AUTONOMOUS INSTITUTE)

(NAAC Accredited 'A+' Grade With CGPA 3.29, College With Potential For Excellence by UGC

Star College By DBT, Govt. Of India)



DEPARTMENT OF MICROBIOLOGY



In Collaboration with IQAC

Certificate

This is to certify that Mr./ Ms. Ambale Pddhi Juvary of
B. Sc. I/ II/ III has successfully completed value Added Course in **"Microbial Quality Control in
Pharmaceutical Industries"** carried out by the Department of Microbiology, Vivekanand College,
Kolhapur (An Empowered Autonomous Institute) during the academic year 2024-25. This
certificate is awarded after passing theory examination.

Nadkarni

Ms. M. M. Nadkarni

Course Coordinator

Gaupale

Dr. T. C. Gaupale

Head of Department

Kumbhar

Dr. R. R. Kumbhar

Principal

DEPARTMENT OF MICROBIOLOGY
VIVEKANAND COLLEGE, KOLHAPUR
(AN EMPOWERED AUTONOMOUS INSTITUTE)

VIVEKANAND COLLEGE, KOLHAPUR
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Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

Department of Microbiology

Value added course 2024-2025

"Microbial Quality Control In Pharmaceutical Industries"

FEEDBACK FORM

- Name of student: - Shreya Jinendra Vasagade.
- Class: - BSc-I. Roll No: - 2559
- Feedback about the course: -
This course is best for students.
I got to know all about the procedure
which are imp in pharma industries.
- Suggestions: -
I have no suggestion.



Shreya Vasagade
Sign of student

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Shri Swami Vivekanand Shikshan Sanstha's
Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

Department of Microbiology

Value added course 2024-2025

"Microbial Quality Control In Pharmaceutical Industries"

FEEDBACK FORM

• Name of student: - Bhagyashri Mahendra Vedpathak

• Class: - B.Sc Biotech Entire Roll No: - 2560
SY

• Feedback about the course: -

These course is usefull for career.

I gained too much information about
pharmaceutical industries

• Suggestions: -

NO suggestion.



Vedpathak
Sign of student

"Education for Knowledge, Science and Culture"

-Shikshanmaharshi Dr. Bapuji Salunkhe"

Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

Department of Microbiology

Value added course 2024-2025

"Microbial Quality Control In Pharmaceutical Industries"

FEEDBACK FORM

• Name of student: - Sanskriti Tamaji Deshmukh

• Class: - FY

Roll No: - 2509.

• Feedback about the course: -

course is good. Very Useful for
our future. All concept are cleared.
in this course

• Suggestions: -

- No suggestion.



Deshmukh
Sign of student

"Education for Knowledge, Science and Culture"

-Shikshanmaharshi Dr. Bapuji Salunkhe"

Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

Department of Microbiology

Value added course 2024-2025

"Microbial Quality Control In Pharmaceutical Industries"

FEEDBACK FORM

- Name of student: - Sheeya Sunil Patil
- Class: - FY Roll No: - 2544
- Feedback about the course: -
Microbial Quality Control in
pharmaceutical industries is good
for us. And very knowledgeable
course it.
- Suggestions: -
You should take to pharmaceutical
industries.



Sheeya
Sign of student

"Education for Knowledge, Science and Culture"
-Shikshanmaharshi Dr. Bapuji Salunkhe"

Shri Swami Vivekanand Shikshan Sanstha's
Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

Department of Microbiology

Value added course 2024-2025

"Microbial Quality Control In Pharmaceutical Industries"

FEEDBACK FORM

• Name of student: - Saloni Gajkumar Patil.

• Class: - B.Sc-J Microbiology Roll No: - 7505

• Feedback about the course: -

The course is very helpful to pharma-
ceutical knowleage.

• Suggestions: -

No suggestions.



Seethi
Sign of student

"Education for Knowledge, Science and Culture"
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Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

Department of Microbiology

Value added course 2024-2025

"Microbial Quality Control In Pharmaceutical Industries"

FEEDBACK FORM

- Name of student: - Samruddhi Vijay Shinde
- Class: - B.SC-T Microbiology Roll No: - 7515
- Feedback about the course: -
These course are very interesting.
-Very helpful helpful to pharmaceutical
Industries
-We gave more information related to pharma-
ceutical industries
- Suggestions: -
No suggestions.



S. S. Shinde
Sign of student

17 / 04/2025 – Value added course examination



28/04/2025 : Value added course certificate distribution

