D. P. Bhosale College, Koregaon

Department of Microbiology (2021-2022)

Notice

Date: 28/12 /2021

All the student of B.Sc. II (C- group) are the here by informed that Department of Microbiology going to organize your Skill based Course on "Aseptic processing- contamination concept & control". It has been scheduled from 1st January, 2022 to 31st January, 2022 Kindly, remain present at prescribed time in lecture hall.

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DEPARTMENT OF MICROBIOLOGY
D.P. BHOSALE COLLEGE, KOREGAON

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Principal,

D.P. Bhosale College, Koregaon

D. P. Bhosale College, Koregaon

Department of Microbiology (2021-2022)

Skill based course (UG)

Aseptic Processing- Contamination Concept & Control

Registration List

Sr. No.	Roll No.	Student Name
1.	22541	Barge Sharaddha Dipak
2.	22542	Bhosale Vaishnavi Chandrashekar
3.	22543	Chikate Jyoti Shubhash
4.	22544	Gore Siddhi Suresh
5.	22545	Jagadale Nikita Nandkumar
6.	22546	Jagtap Kedar Ramesh
7.	22547	Kadam Shruti Saudagar
8.	22548	Kadam Vivek Pralhad
9.	22549	Kshirsagar Isha Sudhir
10.	22550	Nikam Prajwal Dattatray
11.	22551	Nikam Rushikesh Vikas

D. P. Bhosale College, Koregaon

Department of Microbiology (2021-2022)

Skill Based Course (UG)

Aseptic Processing- Contamination Concept & Control

Introduction

This course is designed for the UG students. This course provides a comprehensive understanding of the right knowledge about the basic ideas or principles and skills that are mandatory for conducting Aseptic Dispensation of Sterile Drug Products while maintaining minimum risks. The students obtain the skills essential for controlling the procedure setting & learn the best repetition techniques for decisive media fill sizes also understand the "critical factors" required to maintain compliance.

Overview of Aseptic Processing Course

Aseptic Processing is identified as a process to manufacture Medicinal and Biotechnical products course impartial is to discover the character of aseptic filling to guarantee that industrial production will recall the bareness pledge level prescribed by GMPs

Disinfected products may be largely divided into two major divisions. These divisions depend on the mode of their production. The process includes pasteurization following the satisfying and closing of the ampule and those that are aseptically sterilized. Aseptic Dispensation plays a grave character with large particles that cannot be pasteurized. The confirmation of the procedure to harvest sterile products is gauged through the demo of numerous media fill process imitations. These simulations vary in both numbers and size of the containers and also on the volumes filled over a definite period.

Aseptic Processing contains jeopardy valuation in a continuous manner because of the characteristic risks due to penalties of organization and procedure disappointment and tests within the discovery, separation, control, and organization of creation pollution. Within sterile dispensation, the harshness of the penalties of a failure can be critical to the end user while uncovering barrenness challenges remains rather imperfect because of the trivial number of final products verified. With sheath separation, it is vital to start satisfactory

levels of bacteriological pollution to guarantee both produce security and acquiescence. Additionally, aseptic processes are related to endotoxin control, so it gets managed to satisfactory levels.

A diversity of variable quantities can influence the barrenness pledge and the supplementary endotoxin level. These things always contain personnel, procedure, apparatus, mechanisms, cleansing, dehydrogenation along with facilitates that leave some impact on the organization and dispensation of the ultimate products. Issues that need to be careful include the monitoring of ecological areas and workers, water sources, media, media fills, growing, and cleansing.

Syllabus of Course

Aseptic Processing – Introduction

- Conservation and control of serious surroundings
- Expansion of procedures for process, standardization, Preventive Maintenance, etc
- Adulteration Sources in Sterile Manufacturing
- Subdivision Content Controls, Cross Pollution Hazards
- Cleaning Process and Agents for Sterile Production

Why Aseptic Processing?

- Current Good Manufacturing Practices (CGMP)
- Good Documentation Practices (GDP)
- Cleanroom Design and Control
- Microbiology Basics
- Endotoxins
- Micropipetting
- Environmental Monitoring
- Facility Cleaning and Disinfection
- Aseptic Gowning and Cleanroom Behaviors
- Component Preparation
- Solution Preparation and Filtration
- Sterilization Methods
- Equipment set up
- Sterilization process

Reference Books:-

- Advanced Aseptic Processing Technology
- Sterile Drug Products: Formulation, Packaging, Manufacturing ...
- Microbial Contamination Control in Parenteral Manufacturing
- Contamination Control and Cleanrooms

Board of studies-

Mr. C. B. Jawale.

Miss. S. R. Inje

Miss. S.A. Kshirsagar

Miss. R. M. Nadaf

D. P. Bhosale College, Koregaon

Department of Microbiology (2021-2022)

Skill Based Course (UG)

"Aseptic Processing- Contamination Concept & Control".

Timetable of the course

Class	Time	Saturday 01/01/2022
	11:20 am -12.08 pm	SRI
B.Sc II	12.08 pm -12.56 pm	SAK
	3.00 pm - 4.00 pm	RMN

Class	Time	Friday	Saturday
Class	Time	07/01/2022	08/01/2022
	11:20 am -12.08 pm	SAK	RMN
B.Sc II	12.08 pm -12.56 pm	RMN	SAK
	3.00 pm - 4.00 pm	SRI	SRI

Class	Time	Friday 14/01/2022	Saturday 15/01/2022
	11:20 am -12.08 pm	SRI	SAK
B.Sc II	12.08 pm -12.56 pm	SAK	SRI
	3.00 pm - 4.00 pm	RMN	RMN

Class	Time	Friday	Saturday
Class	Time	21/01/2022	22/01/2022
	11:20 am -12.08 pm	RMN	SAK
B.Sc II	12.08 pm -12.56 pm	SAK	RMN
	3.00 pm - 4.00 pm	SRI	SRI

Class	Time	Friday 28/01/2022	Saturday 29/01/2022
	11:20 am -12.08 pm	RMN	
B.Sc II	12.08 pm -12.56 pm	SAK	Exam
	3.00 pm - 4.00 pm	SRI	

Name of faculty:

Miss. S. R. Inje (SRI)

Miss. S.A. Kshirsagar (SAK)

Miss. R. M. Nadaf (RMN)

HEAD DEPARTMENT OF MICROBIOLOGY D.P. BHOSALE COLLEGE, KOREGAON

D. P. Bhosale College, Koregaon

Department of Microbiology (2021-2022)

Skill based course (UG)

Question Paper (Aseptic Processing- Contamination Concept & Control)

Day & Date: 24/04/2022 Marks – 20

Time - 11:00 am to 12:00 pm

Q. 1 Multiple Choice Questions

- 1. Which of the following is suitable for use on tissues for microbial control to prevent infection?
 - A. disinfectant
 - B. antiseptic
 - C. sterilant
 - D. water
- 2. Which of the following best describes a microbial control protocol that inhibits the growth of molds and yeast?
 - A. bacteriostatic
 - B. fungicidal
 - C. bactericidal
 - D. fungistatic
- 3. Which of the following terms is used to describe the time required to kill all of the microbes within a sample at a given temperature?
 - A. D-value
 - B. thermal death point
 - C. thermal death time
 - D. decimal reduction time

- 4. Which of the following peroxygens is widely used as a household disinfectant, is inexpensive, and breaks down into water and oxygen gas?
 - A. hydrogen peroxide
 - B. peracetic acid
 - C. benzoyl peroxide
 - D. ozone
- 5. Why is it important for you to perform hand hygiene prior to leaving an isolated area? Select all that apply.
 - A. To reduce the risk of contaminating the surrounding environment the
 - B. To reduce the risk of contaminating visitors and other clients
 - C. To reduce the risk of contaminating fellow health care profesionals.
 - D. To reduce the risk of contaminating yourself.

Que. 2 Answer in brief (any 2)

- 1. Explain Adulteration Sources in Sterile Manufacturing.
- 2. Write the difference between current good manufacturing practices (CGMP) good documentation practices (GDP).
- 3. Describe sterilization methods

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Department of Microbiology (2021-2022)

Skill Based Course (UG)

Aseptic Processing- Contamination Concept & Control

Result

Sr.No	Name of Student	Result	Grade
1	Barge Sharaddha Dipak	PASS	A
2	Bhosale Vaishnavi Chandrashekar	PASS	A
3	Chikate Jyoti Shubhash	PASS	В
4	Gore Siddhi Suresh	PASS	A
5	Jagadale Nikita Nandkumar	PASS	A
6	Jagtap Kedar Ramesh	PASS	В
7	Kadam Shruti Saudagar	PASS	A
8	Kadam Vivek Pralhad	PASS	A
9	Kshirsagar Isha Sudhir	PASS	A
10	Nikam Prajwal Dattatray	PASS	A
11	Nikam Rushikesh Vikas	PASS	В

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Aseptic Processing- Contamination Concept & Control

Report

The students obtain the skills essential for controlling the procedure setting & learn the best repetition techniques for decisive media fill sizes also understand the "critical factors" required to maintain compliance. Aseptic Processing is identified as a process to manufacture Medicinal and Biotechnical products course impartial is to discover the character of aseptic filling to guarantee that industrial production will recall the bareness pledge level prescribed by GMPs. The process includes pasteurization following the satisfying and closing of the ampule and those that are aseptically sterilized. Aseptic Dispensation plays a grave character with large particles that cannot be pasteurized. The confirmation of the procedure to harvest sterile products is gauged through the demo of numerous media fill process imitations. These simulations vary in both numbers and size of the containers and also on the volumes filled over a definite period.

The 11 students have been participated in the said course with proper knowledge about Aseptic Processing. After completion of the course certificates are offered individually.



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D. P. Bhosale College, Koregaon



DIST- SATARA, MAHARASHTRA ,INDIA -415501



DEPARTMENT OF MICROBIOLOGY

SKILL BASED COURSE

<u>Certificate</u>

Dr. Mrs. S. P. Nalawade

Convener

Mr. C. B. Jawale

Coordinator

Prin. Dr. V. S. Sawant

Organizing chairman

D. P. Bhosale College, Koregaon

Department of Microbiology (2021-2022)

Skill based course (UG)

Aseptic Processing- Contamination Concept & Control

Attendance sheet

(From 01/01/2022 to 31/1/2022)

Sr. No.	Roll No.	Name of the Student	11122	21122	3/1/22	4/1/2	Sille	chiha	2/1/2	4/1/2	2//12	wilm	11.100	77///	12/1/27	24/16	K4/1/22	15/1/2	16/1/22	201/11	11/12	19/1/22	20/1h	21/1/22	21/22	23/1/22	W.Hb	ochin	11110	26/1/22	2011/12	28//122	20162	241/x
1.	22541	Barge Sharaddha Dipak	P						P	P	1	-		,		T	P	P.						P	P						f	P		
2.	22542	Bhosale Vaishnavi Chandrashekar	P						A	P						I	P	P.				٥.		P	P						P	P		
3.	22543	Chikate Jyoti Shubhash	P						P	P						1	P	A			,			A	P						F	P		
4.	22544	Gore Siddhi Suresh	P						P	P						F	P	P						P	P						P	P		
5.	22545	Jagadale Nikita Nandkumar	P						P	P							9	A						ρ	P						P	, F		
6.	22546	Jagtap Kedar Ramesh	P						P	A						Ý	2	P						P	P				1		A	P		
7.	22547	Kadam Shruti Saudagar	P						P	P						1	P	P						P	A						F	P		
8.	22548	Kadam Vivek Pralhad	P	П	П				P	P						1	A	P						P	P						P	P		1
9.	22549	Kshirsagar Isha Sudhir	A	П		П			P	P						1	p	P						A	P						P	P		
10.	22550	Nikam Prajwal Dattatray	P	П		П			P	P							P	P.		П				P	P						I	P		
11.	22551	Nikam Rushikesh Vikas	P						P	A							A	P						P	P						F	P		2
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