<b>Enrollment No:</b>	Exam Seat No:_	Exam Seat No:	
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## Winter Examination-2021

Subject Name: Pharmaceutical Microbiology-I

Subject Code: 4PS05PMI1 Branch: B.Pharm

Semester: 5 Date: 17/12/2021 Time: 11:00 To 02:00 Marks: 70

## **Instructions:**

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

Q-1		Define the following terms:	(14)
	a)	Virus	(1)
	,	Sterilization	(1)
	c)	Disinfectant	(1)
	d)	Sterility testing	(1)
	e)	Fungi	(1)
	$(\mathbf{f})$	Microbial assay	(1)
	g)	Classify the culture media	(1)
	<b>h</b> )	Spirochetes	(1)
	i)	Antiseptics	(1)
	<b>j</b> )	Pasteurization	(1)
	-	Give types of Microscopes	(1)
	1)	Enumerate the different type of staining technique.	(1)
	m)	Spore	(1)
	n)	Enumerate the methods to obtain pure culture of bacteria.	(1)
Atter	npt any	four questions from Q-2 to Q-8	
Q-2		Attempt all questions	(14)
	a)	Write a brief note on scope and application of microbiology.	(7)
	b)	Differentiate following i) Gram positive and Gram negative bacteria ii) Bacteria and virus	(7)
Q-3		Attempt all questions	(14)
	a)	Explain Gram staining in detail.	<b>(7)</b>
	b)	Write a note on culture media.	<b>(7</b> )
Q-4		Attempt all questions	(14)
-	a)	Write a note on Autoclave.	(7)
	b)	Give a detailed account on Gaseous sterilization.	<b>(7)</b>



<b>Q-5</b>		Attempt all questions	(14)
	a)	Enumerate the methods of evaluation of disinfectant. Explain Rideal-Walkar	<b>(7</b> )
		test.	
	b)	Discuss the factors influencing disinfectant action.	<b>(7</b> )
Q-6		Attempt all questions	(14)
	a)	Write a brief note on sterility testing.	<b>(7)</b>
	b)	Write a brief note on microbiological assay of Vitamin B12.	<b>(7)</b>
Q-7		Attempt all questions	(14)
	a)	Explain the role of yeast and moulds in Industrial Microbiology.	(7)
	b)	Define microscopy. Discuss specimen preparation for electron microscopy.	<b>(7)</b>
Q-8		Attempt all questions	(14)
-	a)	Describe structure & composition of virus.	(7)
	b)	Discuss various method used for isolation of pure cultures.	(7)

