Enrollment No:C.U.SHAH	Exam Seat No: I UNIVERSI	
Winter Ex	xamination-2015	5
Subject Name: Pharmaceutical Microbiolo Subject Code: 4PS05PMI1	ogy-I	Branch : B.Pharm
Semester: 5 Date: 30/11/2015 Instructions:	Time :2:30 To 5:30	Marks : 70
 (1) Use of Programmable calculator & (2) Instructions written on main answe (3) Draw neat diagrams and figures (if (4) Assume suitable data if needed. 	er book are strictly to be obe	
Attempt the following question	s:	(1
a) Define the term "Fungi".b) Define the term "Protozoa".c) Define the term "Biofilms".		

Q-1		Attempt the following questions:	(14)
	a)	Define the term "Fungi".	
	b)	Define the term "Protozoa".	
	c)	Define the term "Biofilms".	
	d)	Define the term "Alcohols as preservatives".	
	e)	Define the term "Total count".	
	f)	Define the term "D value".	
	g)	Define the term "Thermal death time".	
	h)	Define the term "Z value".	
	i)	Define the term "spore".	
	j)	Define the term "spirochetes"	
	k)	Define the term "abiogenesis"	
	1)	<u>e</u>	
	m)	Define the term "isolation techniques for microbes".	
	n)	Define the term "cold sterilization".	
	g) h) i) j) k) l) m)	Define the term "Thermal death time". Define the term "Z value". Define the term "spore". Define the term "spirochetes" Define the term "abiogenesis" Define the term "vitamin assay". Define the term "isolation techniques for microbes".	

Attempt any four questions from Q-2 to Q-8

Q-2		Attempt all questions	(14)
	1.	What is pharmaceutical microbiology? Write in brief its scope	(7)
	2.	Write a note on factor affecting the growth of microorganism.	(7)
Q-3		Attempt all questions	(14)
	1.	Discuss in brief the construction and working of an electron microscope.	(5)
	2.	Classify the various media for bacterial growth. Differentiate Selective and	(5)
		Differential media	
	3.	Discuss the gram Staining and acid fast Staining.	(4)
Q-4		Attempt all questions	(14)
	1.	Discuss in brief Ethylene oxide Sterilization.	(5)
	2.	Write a note Radiation Sterilization method	(5)



	3.	Explain in detail the Rideal Walker test for evaluation of disinfectants.	(4)
Q-5		Attempt all questions	(14)
	1.	Describe the mechanism, conditions and process of Moist Heat sterilization.	(7)
	2.	Define and classify disinfectant. Write about factor affecting disinfectant's efficacy.	(7)
Q-6		Attempt all questions	(14)
	1.	Describe ditch plate method for microbiological assay.	(5)
	2.	Explain principle involved in microbiological assay of antibiotics	(5)
	3.	How do perform test for sterility of sodium sulphacetamide eye drops.	(4)
Q-7		Attempt all questions	(14)
_	1.	Differentiate gram positive and gram negative microorganism.	(7)
	2.	Write a note on yeast use in pharmaceutical Industrial.	(7)
Q-8		Attempt all questions	(14)
	1.	Describe various chemical & biological sterilization indicators.	(7)
	2.	Describe structure & composition of virus.	(7)

