Enrollment N			
		C.U.SHAH UNIVERSITY	
Winter Examination-2021			
Subject Name : Pharmaceutical Microbiology - Theory Subject Code : BP303T Branch: B.Pharm Semester: 3 Date: 15/12/2021 Time: 02:30 To 05:30			Marks: 75
(2) (3)	Use (Instruction Draw	of Programmable calculator & any other electronic instrument is prohibite actions written on main answer book are strictly to be obeyed. I neat diagrams and figures (if necessary) at right places. me suitable data if needed.	ed.
Q-1		Attempt the following questions:	(20)
	a)	What is flagella? What are different types of flagella?	
	b)	Comment: Oxygen is lethal or beneficial for microorganisms.	
	c)	Suggest suitable sterilization method for Ethyl oleate and eye drops.	
		What do you mean by Z value? What is the role of agar and resazurin sodium in FTM?	
		What are the examples of acid fast bacteria?	
		What are the classes of aseptic area as per pharmaceutical regulatory?	
		What is the use of dark field microscopy?	
	i)	Give examples of Physical and chemical indicators of sterilization.	
	j)	Enlist the application of cell culture in Pharmaceuticals.	
Attem	pt the	following questions:	
Q-2		Attempt any two of following:	(20)
	\mathbf{A}	Write a note on different methods of cultivation of microorganisms.	10
	В	Write a note on Moist heat sterilization methods.	10
	C	Discuss principle and methods of microbiological assay.	10
Q-3		Attempt any Seven of following:	(35)
	A	Differentiate Eucaryotes and Prokaryotes.	5
	В	Discuss the identification of bacteria by Gram's Staining Technique.	5 5
	C	Write a note on different sources of contamination in aseptic area.	
	D	Discuss the factors affecting microbiological spoilage of Pharmaceutica products.	1 5



Write a note on result interpretation of sterility testing by direct

Write a note on evaluation of disinfectant activity of compound.

Define Disinfectant. Classify disinfectants in details.

 \mathbf{E}

 \mathbf{F}

G

H

I

inoculation method.

Write a note on SEM.

Write a note on Culture media.

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