Seat Number



BP 303 T Pharmaceutical Microbiology (723303)

W-19

P. Pages: 2

Time: Three Hours

Max. Marks: 75

10

-	Inat	ruoti	one t	o Candidates	Annual Control of the				
	Instructions to Candidates: 1. Do not write anything on question paper except Seat No.								
		1.	Crai	oh or diagram should be drav	wn with the	e black ink pen bei	ing used fo	or writing	
		2.	Grap	on or diagram should be drav	VII WILLI LI	c black link peri se			
			pape	er or black HB pencil.	oont will b	a provided			
		3.	Stuc	lents should note, no supplen	Herr Mococc	e provided.			
				gram should be drawn wherev	er necess	oaly.			
		5.	All c	uestions are compulsory.					
1.	a)	Cho	ose	the proper alternative of the f	following.				
	1) Bacteria are multiple by				method.				
		- 1	a)	Reproduction	b)	Meiosis			
			c)	Fragmentation	d)	Binary fission			
				5					
		2)	Rei	moval or killing of micro organ	nism is kno	own as			
				Filtration	b)	Sterilization			
			c)	Budding	d)	Sporulation			
		3)	Ter	mperature range for 'Pasteuri:	zation' is				
		,	a)	60°c-70°c	b)	62°c-72°c			
			c)	65°c-75°c	d)	121°c-130°c			
		4) Oil immersion objective lens has an NA value of							
			a)	0.65	b)	0.85			
			c)	1.33	d)	1.00			
						v			
	5) Viruses and their structure are studied by								
		,	a)	Facility of the Control of the Contr	b)	Dark-field micros	cope		
				Electron microscope	d)	Spectroscopy			
			,						
		6)							
		-,	a)	nich family organism is detect Enterobacteriaceae	b)	Solanaceae			
			c)	Liliaceae	d)	Fabaceae			
			-/						
	In negative staining ——— stain is used.								
		-)	a)		b)	Safranin			
				Gram's lodine	d)	Alcohol			

		8)	For preservation cells should be in phase of their life cycle. a) Log phase b) Lag phase c) Stationary phase d) Decline phase					
		9)	Circular shape bacteria are referred as a) Bacilli b) Cocci c) Spirillum d) Vibrio					
		10)	Fungal cell-wall is made up from a) Peptidoglycan b) Pectin c) Cellulare d) Chitin					
	b)	Sol	Solve the following questions.					
		1)	What is selective media & give its example.					
		2)	Write down the mode of action of radiation sterilization.					
		3)	Write down ideal properties of disinfectant.					
		4)	Advantages of lyophilization method.					
		5)	Give the properties of viruses.					
2.		Sol	Solve any two questions.					
		1)	What is pasteurization? Explain principle, working & construction of Autoclave. Give its advantage & disadvantage.					
		2)	Explain designing of Aseptic area & give the requirements for aseptic area.					
		3)	Define microscope. Explain principle, working & construction of electron microscope.					
3.		So	Solve any seven questions from the following.					
		1)	Explain viral reproduction by lytic cycle.					
		2)	Describe various methods of measurement of bacterial growth.					
		3)	Write sporulation process in brief with suitable phases.					
		4)	Describe dry heat sterilization & its application.					
		5)	Explain bacterial isolation method in brief.					
		6)	Describe any three method of bacterial preservation.					
		7)	Explain scope of pharmaceutical microbiology.					
		8)	***					
		9)	Write a note on differential media with example.					

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