Paper / Subject Code: 90727 / Product Development and Technology Transfer (R-2019) MQA104T

		T	me : 3 hou	re		Total Mark	s: 75 Marks	
	NB	. : All questic						
	14. 5			licate marks				
					the right que	estion paper.		
21	Multiple Cho	ice Questions				(20)		
	to obtain the Lab		alcounted as		accessment le	donala		
1		udies for new hase II	cnemicai er	itity, safety i	3556551116111 13	uone m		
		hase I						
		hase III						
	d P	hase IV	de.	Carl Carl			.0	
			The state of the s			š	4.004	
2	Under following section of Federal Food Drug and Cosmetic Act, abbreviated new drug							
	application is							
		05 b1	0			197		
	1	05 b2	43	30	and the	10		
		05 j	The state of	20			Y	
	0 50	05 a	Lake.				\$ 1 S	
	Following ted	chniques are i	used in char	acterisation	of polymorp	hism except		
		PLC	,0			, M		
1		RD			.55	3		
1		SA .	20 V		2 N. P.	\$ 6		
	4	SC .		A. Carrier		7		
					The state of the s			
	All the follow	ing studies ar	e applicable	e for generic	product dev	elopment ex	cept	
	a Bio	pequivalence	study		A. Maria			
	b Sta	ability study				, C.		
		ssolution stud	l y	4		100		
	d. Eff	icacy study			````````\			
			Land.	\$1\$				
	10. 9		t of similar	specification	ns of an imm	ediate releas	se dosage form is	
4	referred to as	SUPAC Level	Y.		a A lama	-10		
	a 👌 1							
	b 2							
	c 3							
	d 4			£ .				
	Micronization	The state of the s	rmaceutica	l ingredient	tincreases			
	4.9	sity	C					
		availability						
	c por	osity						
	The state of the s	orphism						
	Which one of t	he following	test is perf	ormed for e	evaluation of	f plastic cont	ainers	
,	a Frag	mentation to	est					
ì	The state of the s	apsibility Tes		· ·				
į		vy metal test						
1	X.	9,701						
\$ N	, пуа	rolytic resista	nice test					

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Glass Containers
Aluminium Containers

	17 Full form of SUPAC is	
	a Scale up pre agreement charges	
	b Scale up pre approval changes	
	c Scale up post approval charges	
	d Scale up post approval changes	
	B Post marketing surveillance is referred to as	
	a Phase I trial	
	b Phase II trial	
	c Phase III trial	
	d Phase IV trial Which one of the following is most preferred method for terminal sterilization of a	
19	Which one of the following is most preferred free the tribution?	
	thermostable aqueous injectable solution?	
	a Dry heat sterilization	
	b Membrane filtration	
	c Radiation sterilization	
	d Moist heat sterilization	
20	IND is referred to as	
	a Investigational New Drug	
	b Investigational Novel Drug	
	c Investigational Novel Dosage	
	d Investigational New Dosage	(20)
Q. II	Attempt any two questions out of three	5
ar and	The supplication what circumstances SUPAC is applicable with respect to	•
1	immediate release dosage forms.	5
\	immediate release dosage forms. Write a note on Preformulation studies conducted for the drug to be B. Write a note on Preformulation studies conducted for the drug to be	_
	formulated as oral solid dosage form. formulated as oral solid dosage form.	5
	formulated as oral solid dosage form. A Discuss various approaches for improvement of bioavailability of poorly soluble	5
2.	A Discuss various approaches for improvement	_
3	drug.	5
	B Give an overview of NDA for drug development. B Give an overview of NDA for drug development.	5
3	B Give an overview of NDA for drug development A Write a note on bulk characterization study and its importance Write a note on bulk characterization study and its importance A Write a note on bulk characterization study and its importance	5
	Write a note on bulk characterization steely B Highlight the significance of Bulk Active Post approval changes	
200		(35)
	aut of nine	(22)
2. 11	Attempt any seven questions out of nine	5
4	What is the objective of IND submission? What are its contents? What is the objective of IND submission? What are its contents?	5
1.	What is the objective of IND submission? What are its contents: Give significance of particle size, shape and surface area in preformulation study.	5
2.	Give significance of particle size, shape and surface area in preformulation. Give significance of particle size, shape and surface area in preformulation. Summarize the pilot plant scale-up considerations for an film coated tablet prepared	_
3.	cummarize the pilot plant scale up services	_
07	by wet granulation Discuss typical layouts followed in pharmaceutical manufacturing set-up and give	5
4.	Discuss typical layouts followed in pharmaceutical manual	
4.	advantages of any one of them. Describe the pilot plant scale up activities of liquid oral Draw a pilot plant layout of	5
	advantages or blot plant scale up activities of liquid oral blaw a plies plant	
5.	Describe the phot plant	5
4	iquid oral manufacturing modern drug packaging and give approaches to control	
6.	iquid oral manufacturing unit inlist the issues facing in modern drug packaging and give approaches to control	5
(ounterfeiting of drug	
7. 5		
8. E	ummarize stability testing of our community testing our comm	,
9.5 V	rite a note on elastomeric closures and its evaluation tests	
7 0		