Paper / Subject Code: 69304 / Pharmaceutics-IV

Q. P. Code: 22794

		Time: 3 Hours	marks		
Please check whether you have got right question paper.					
N. B.: (1) All questions are compulsory.					
	(2	2) Figures to the right indicate full marks.	97697		
	(3	3) Draw neat labelled diagram wherever necessary.			
1	a	Explain the leaker test for thermolabile aqueous parenteral formulation.	2		
	b	Removal of pyrogens from parenteral formulation is difficult. Justify.	2		
	c	Attempt any two	4		
	i)	Explain importance of wool fat in ophthalmic ointments.	200		
	ii)	Enlist advantages of ophthalmic gels.			
	iii)	Explain the need for addition of preservative in ophthalmic formulations.			
	d	Enlist advantages of SR formulations over conventional formulations.	2		
	e	Explain maintenance dose calculations for SR drug delivery systems.	2		
	f	Discuss importance of Arrhenius equation in calculating shelf life and half life of a produ	ict. 3		
2	a	Discuss nonaqueous vehicles used in parenteral formulations and route of their administration.	4		
	b	Discuss factors limiting ocular bioavailability.	3		
	c	What is oxidative degradation? Suggest methods for its prevention.	4		
	667	OR OR			
300		Discuss degradation of moisture sensitive drugs.			
3	a	Enlist evaluation tests for rubber closures stating significance of each.	4		
		OR			
33/1		State various types of glasses and methods to differentiate between them.			
N. W.	b	Discuss biological properties of drug considered while designing SR dosage forms.	4		
	C S	Discuss stability studies as per ICH guidelines.	3		

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4	a	Discuss formulation and processing of suspension type of injectable.	
	b	Discuss evaluation tests for ophthalmic ointments.	3
	c	Explain ion exchange controlled drug delivery system.	4
		OR OR	P. P. C.
		Differentiate between dissolution controlled and diffusion controlled SR systems.	
5	a	Discuss packaging of large volume parenteral.	4
	b	Explain evaluation of oral SR formulations.	3
	c	Discuss influence of plastic as packaging material on stability of pharmaceuticals.	4
6	a	Discuss the manufacturing facility for parenteral formulation with the help of suitable layout.	4
	b	Explain construction and working of HEPA.	3
	C	Enlist various types of contact lenses and discuss any two contact lens care products	4
