P4-Exa	am	Oct-	09-154
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2009-lo. DY-5993

[Total Marks: 35

N.B.: (1) Question No. 1 is compulsory.

- (2) Attempt any four questions out of remaining six questions.
- (3) All questions carry equal marks.
- (4) Draw diagrams wherever necessary.

1.	(a) Discuss base for eye ointments.	3
	(b) Write on 'packaging' and 'labelling' of eye drops.	4
2.	With the help of activity/process flow chart, explain in brief, manufacturing of injectable solution containing thermolabile drug. Label the flow chart with quality of air required	7
	for each activity.	
3.	(a) Discuss need of disinfection of lens and formulation considerations for lens care products.	4
	(b) Discuss 'Clarity and Particulate testing' for injectable solutions.	3
4.	Discuss manufacturing and sterilisation of Catgut.	7
5.	Write short notes on :-  (a) HEPA filters and laminar air flow  (b) Principle of freeze drying.	7
6.	<ul><li>(a) Give a brief account of official insulin injections.</li><li>(b) List methods of preparation of water for injection and discuss storage of water for injection.</li></ul>	3
7.	<ul><li>(a) State source of dextran. Write a note on official dextran formulation.</li><li>(b) Write a note on whole human blood.</li></ul>	4
	(b) Time a note on whole number blood.	0