Q.P. Code :22605

	[Time: Three Hours]				[Marks:80]	
		N.B:	1. 2. 3.	Please check whether you have got the right question paper. Question.No.1 is compulsory. Attempt any three questions out of remaining five questions. Figures to the right indicate full marks. Assume suitable data if necessary, stating your assumption.		
Q.1	1)	-	Attempt the following: Draw and explain behavior of immune system.			
	2) Explain with a neat diagram, sliding filament theory.				05	
	3) What are the various techniques of thermogenesis and thermolysis.				05	
	4) State and explain the biophysics tools.				05	
Q.2	a) Derive the Goldman's Equation for a cell membrane				10	
	b)	Explain using	g suit	able diagram plant model of a thermoregulatory system.	10	
Q.3	3 a) Explain the two control mechanism of neuromuscular system.				10	
	b)	Explain the H	Hodgl	kin – Huxley model and its conductance equation.	10	
Q.4	a)	a) Explain the pharmokinetic model and state its applications.				
	b)	i) A	ctive	the reciprocal innervations model, explain state tension generator. - velocity relationship	10	
Q.5	a)	a) Explain the model for insulin glucose feedback mechanism.				
	b)			cal modeling. Explain the steps involved in physiological modeling.	10	
Q.6	b) c)	Write short m Respiratory s Ion pump and Glissades Parkinson's s	syster d its s	n model. significance.	05 05 05 05	
