QI	P CODE: 104326 Reg. No:
Fi	rst Year Pharm D Degree Supplementary Examinations – January 2017
	Pharmaceutical Organic Chemistry
Ti	me: 3 Hours • Answer all Questions. • Write equation wherever necessary.
Es	(3x10=30)
1.	State and explain Markownikov's rule and peroxide effect.
2.	Explain the mechanism involved in claisen condensation and knoevenegal reaction.
3.	What are elimination reactions. Briefly describe E_1 and E_2 reactions.
Short notes: (8x5=	
4.	Acidity of phenols.
5.	Explain Sandmeyer's reaction and wittig reaction.
6.	SN ₂ reaction with a suitable example.
7.	Mention the preparation, assay and uses of glyceryl tri nitrate and aspirin.
8.	Explain hyper conjugation and inter molecular forces.
9.	Resonance stabilization of benzyl radical.
10	. Reactions of carboxylic acids.
11	. Mention briefly about 1, 2 addition and 1, 4 addition reactions of conjugated dienes.
