F.Y.B.PHARM. SEMESTER-I (CBCS - 2015 COURSE) : SUMMER - 2018 SUBJECT: PHARMACEUTICAL CHEMISTRY - II (ORGANIC)

Time : 10.00 AM TO 01.00 PM

Day Date	:	Monday S-2018 23/04/2018	3-3904	Time : 10.00 AM TO Max. Marks: 60	01.00
N.B.	1) 2) 3) 4)	Q.1 and Q.5 are COMPUL Solve any TWO of the remarking figures to the right indicate Answers to both the sections	aining from S FULL mark		k.
Q.1	a) b) c) d) e) f) g)	Explain: Methyl amine is more basic than ammonia. Dipole moment of carbon tetrachloride is 0 but dipole moment of methyl chloride is 1.86 D. Why? What is dipole-dipole interaction? Why melting point of ionic compounds is higher than non-ionic compounds? What is polarity of bonds?			(10)
Q.2		Give contributing resonating structures in the resonance hybrid.			(10)
Q.3	a)	Give factors affecting rate of S _N 1 reaction.			(06)
	b)	Give IUPAC names of follow	e IUPAC names of following compounds (ANY FOUR)		
	i)	(Hz-(=(-(H)(Hb)) ₂ ii)	(ths - N- (th - (th) - (th)	
	iii)	(H3 ((H2)2(H0	iv)	CH3-C-SH	
	v)	(H ₃	vi)	CH3 CH3 SO ₃ H	
Q.4	a) b) c)	Write short notes on ANY TV Steric effects S_N^2 reaction Hyper conjugation	WO:		(10)

SECTION - II

Q.5 Answer **ANY FIVE** of the following: (10)Classify following into electrophiles and nucleophiles. 地の, NH, RMgX, BF3 Predict the product. $G_{N} = N : N : \Delta / UV$ Give different reagents used in Sulphonation reaction. c) Define Tautomerism. d) How specific rotation is measured? e) Give a reaction of generation of carbanions by decomposition of f) carboxylate ion. What is Stereospecific reaction? g) **Q.6** What are reaction intermediates? Give an account on carbon radical. (10)Explain Geometric isomerism in detail. **Q.**7 (06)a) Give examples of Friedel Craft acylation and alkylation reaction. b) (04)Write short notes on **ANY TWO**: **Q.8** (10)a) Structural Isomerism Benzynes b)

Nitration reaction

c)