

Code No. 4213

FACULTY

B. Pharmacy 2/4 I - Semester (Suppl.) Examination, April 2017

Subject: Pharmaceutical Oranic Chemistry - I

Time: 3 Hrs Max. Marks: 70

Note: Answer all questions. All questions carry equal marks

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a) Discuss the effect of intramolecular and intermolecular forces. b) Explain the followin terms:	8
i) Inductive effect ii) Resonance effect.	3 3
OR	•
c) What is isomerism? Write abt structural isomerism.	6
d) Add a note on activation enery.	4
e) Define the terms with examples:	4
i) Bond anleii) Heterolysis.	
II) Helelolysis.	
2 a) Write the reaction and mechanism of antimarkonikovs addition.	7
b) ive the structural formulas of the followin:	3
i) 4 Ethyl 2,4 dimethyl heptane	•
ii) 1,2 Dibromo 2 methyl propane	
iii) 3 Ethyl 2 methyl pentane.	
c) Write any two methods for synthesis of alkenes.	4
ØŘ.	
d) Explain the stability of cycloalkanes by different theories.	10
e) Write any two chemical reactions of alkanes.	4
2 a) in a the atmentional forms doe for the following	4
3 a) ive the structural formulas for the followin:	4
i) 2 Bromo ethanolii) Tert butyl isobutyl ether	
iii) 2 Fluoro 3 pentanol	
iv) n Butyl ethyl ether	
b) Write the mechanism of dehydration of alcohols.	6
c) Add a note on Walden inversion.	4
OR	
d) ive the reasons for followin statements:	2
i) Alcohols have hiher boilin points than alkanes	
ii) Lower alcohols are soluble in water	
e) How will y distinuish between primary, secondary and tertiary alcohols with	_
examples?	7
f) Discuss the mechanism for SN reactions.	5
4 a) ive the mechanisms for the followin:	3x2=6
i) Aldol condensation	JAZ-0
ii) Haloform reaction	

iii) Witti reaction



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b) Write any fr meth ods for preparation of carbonyl compnds.	
OR .	_
 c) Write the eneral methods of preparation of carboxylic acids. 	1
d) Discuss reactivity and applications of acetoacetic ester.	7
5 a) How will y separate a mixture of amines with different methods.	6
b) Write abt the reactions of amines.	8
OR	
 c) ive the synthetic applications of aryl diazonium salt. 	4
d) Write the nomenclature and acidity of nitro alkanes.	5

e) ive a note on diazotization and Sandmeyer reaction.

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