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## Subject Code: B13205/R13 I B. Pharmacy II Semester Regular/Supply Examinations July - 2015 PHARMACEUTICAL ORGANIC CHEMISTRY-II

Time: 3 hours

Max. Marks: 70

Question Paper Consists of **Part-A** and **Part-B** Answering the question in **Part-A** is Compulsory, Three Questions should be answered from **Part-B** \*\*\*\*\*

## PART-A

- 1. (a) Write a note on aromaticity of Benzene.
  - (b) Give any two methods of preparation of aldehydes.
  - (c) Arrange the following acids in increasing order of acid strength. p-Nitro benzoic acid, p-Methyl benzoic acid and Benzoic acid
  - (d) Explain the industrial preparation of phenol.
  - (e) Write a note on basicity of amines.
  - (f) Describe the mechanism of Mannich reaction.

[4+4+3+3+4+4]

## PART-B

2.	(a)	Expl	lain	the mecha	anism c	of I	Friedel	-Cra	ft's	alky	lation	and	its li	imita	tion	s.	
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- (b) How bromobenzene react with strong base like sodamide? Explain the mechanism.
- 3. (a) What are the products of the following reaction? Write its name and mechanism.

_\	H conc. NaC	H.
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- (b) Give the nucleophilic addition reaction of acetophenone with Grignard reagent.
- (c) Write a note on Perkin condensation reaction of aromatic aldehyde.
- 4. (a) Explain the mechanism of Esterification.
  - (b) Give any two methods of preparation of malonic ester from carboxylic acid.
  - (c) Write any three pharmaceutical applications of acetoacetic ester.

[6+4+6]

[6+4+6]

[8+8]

- 5. (a) Write a note on:
  - (i) Kolbe reaction (ii) Riemer-Tiemann reaction
  - (b) Explain the effect of different substituents on acidity of phenols.

[8+8]

- 6. (a) How can you distinguish  $1^0$ ,  $2^0$  and  $3^0$  amines in laboratory? Explain. 6M
  - (b) How will you effect following conversions? Suggest the mechanisms. 10M
    (i) Aniline → Benzonitrile
    (ii) Aniline → Iodobenzene
- 7. (a) Give the mechanism of Fries rearrangement.[6+10](b) Write a detail note on Michael addition.[8+8]\*\*\*\*



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**R10** 

## Code No: B1204/R10

I B.Pharmacy II Semester Supplementary Examinations, July. 2015 ANATOMY, PHYSIOLOGY & HEALTH EDUCATION-II

Time: 3 hours Answer any FIVE Questions	Max Marks: 75						
All Questions carry equal marks $\star \star \star \star \star$							
1. Define ESR? Mention their normal values .What are the fact are the methods to determine ESR? What is the significanc	0						
2. What is blood coagulation? List out the clotting factors. E sequence of clotting with chart.	Explain in detail about [15]						
<ul> <li>3. Explain in detail</li> <li>(a) Hepatic circulation</li> <li>(b) Coronary circulation</li> <li>(c) Pulmonary circulation</li> </ul>	[5+5+5]						
4. What is hypertension? Describe in detail about types, sympt causes and treatment of hypertension.	toms, Pathophysiology, [15]						
<ul><li>5. (a) Describe the structure &amp; functions of large intestine, the</li><li>(b) Explain the chemical digestion takes place in small integration</li></ul>							
<ul><li>6. (a) Explain the structure of oral cavity</li><li>(b) How saliva secretion is regulated?</li></ul>	[8+7]						
<ul><li>7. (a) What is parathyroid gland? Explain the physiology and</li><li>(b) Write briefly about vasopressin</li></ul>	functions? $[10+5]$						
<ul> <li>8. Write the following <ul> <li>(a) Melatonin</li> <li>(b) Prostaglandins</li> <li>(c) Calcitonin</li> <li>(d) Oxytocin</li> </ul> </li> </ul>							
(u) Oxytoem	[4+4+3+4]						
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