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Subject Code: B13203/R13 I B. Pharmacy II Semester Regular/Supply Examinations July/Aug. - 2015 COMPUTER APPLICATIONS & BIOSTATISTICS

Time: 3 hours

Max. Marks: 70

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

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) Explain mail- merge concepts in Ms-word
 - (b) Define the terms network and internet
 - (c) Write a short note on DBASE III?
 - (d) Mention the Applications of standard deviation and standard error
 - (e) What is correlation coefficient and rank correlation co efficient?
 - (f) What is the difference between paired and unpaired student t- test?

PART-B 2. Explain the importance of the following -s anter con (a) MS Word & MS access (b) MS Excel & MS PowerPoint [8+8] 3. Discuss the following **Internet Searching Strategies** (a) (b) HTML [8+8] 4. (a) Write in detail about the concepts and objectives of database management systems (b) Discuss in detail about the advantages of database management systems [10+6]

5. (a) What is sampling? Explain the important methods of sampling commonly used.(b) Write a note on data collection techniques

[10+6]

- 6. (a) What is the role of P-chart as SQC in ensuring good quality of a pharmaceutical product?
 - (b) Write a note on applications of statistical quality control in pharmaceutical formulations.

[8+8]

- 7. (a) Enlist the applications of t-test and chi-test in pharmacy?
 - (b) What do you mean by one way and two way ANOVA? Discuss various steps involved in performing ANOVA?

[6+10]

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 $\mathbf{R10}$

Max Marks: 75

[8+7]

Code No: B1206/R10

I B.Pharmacy II Semester Supplementary Examinations, July. 2015 PHARM ORGANIC CHEMISTRY -II

Time: 3 hours

Answer any FIVE Questions All Questions carry equal marks ****

- 1. Write detail note on General methods of synthesis of alcohols. [15]
- 2. Write the mechanism of following with reference to phenol.
 - (a) Kolbe- Schmidt reactions.
 - (b) Fries- rearrangement.

3. Explain the following

- (a) Why phenol is insoluble in sodium bicarbonate or sodium carbonate but soluble in sodium hydroxide.
- (b) Fridel-craft's reaction does not occur in the case of highly activated rings like phenols.why? [8+7]
- 4. Write the important methods of preparation of aldehydes and ketones. [15]
- 5. (a) Oxidation reduction reaction of aldehydes and ketones.
 (b) Idoform reaction of acetaldehyde. [10+5]
- 6. (a) Write the hydrolysis, reduction reactions of esters.
 (b) Write an account of malonic and acetoacetic esters, their importance in synthesis.
- 7. (a) Discuss the basicity of amines. Explain why aliphatic-amines are stronger bases than ammonia.
 - (b) Discuss the Hinsberg method of separation of mixture of amines. [8+7]
- 8. (a) What are alkyl cyanides. Write any two important methods of preparation of alkyl cyanides.
 - (b) Explain of reactivity of alkyl cyanides. Discuss the various functional reactions of alkyl cyanides. [8+7]
