

**Subject Code: B13203/R13**

**I B. Pharmacy II Semester Regular/Supply Examinations July/Aug. - 2015**  
**COMPUTER APPLICATIONS & BIOSTATISTICS**

**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) 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?

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

**PART-B**

2. Explain the importance of the following
  - (a) MS Word & MS access
  - (b) MS Excel & MS PowerPoint

[8+8]
3. Discuss the following
  - (a) Internet Searching Strategies
  - (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]

\*\*\*\*\*

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

Time: 3 hours

Max Marks: 75

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. [8+7]
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) Iodoform 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. [8+7]
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]

\*\*\*\*\*