

(OLD SCHEME)

Reg.No: .....

Second Year B.Pharm Degree Supplementary Examinations - August 2014

**MATHEMATICS, BIOSTATISTICS & COMPUTER APPLICATIONS  
(2010 SCHEME)**

**Time: 3 Hours**

**Total Marks: 100**

- Answer all Questions.
- Use ordinary calculators.
- Write section A and section B in separate answer books(32 Pages).  
Do not mix up questions from section A and section B.

QP CODE: 205006 **Section A** –Mathematics & Biostatistics

Marks: **50**

**Essay**

**(1x10=10)**

1. Calculate the regression co-efficient of x on y and y on x for the following

x	11	14	10	13	12	14	11	16	15
y	10	11	15	14	12	15	13	16	11

**Short notes**

**(8x5=40)**

2. Find  $\frac{dy}{dx}$  if  $y = x \tan x$

3. Evaluate  $\int x \sin x \, dx$

4. Solve  $(D^2 + 2D+1)y = \sin 2x$

5. Solve  $L \left[ e^t + \frac{1}{e^t} \right]^2$

6. Explain the method of constructing frequency polygon and frequency curve with suitable example

7. State the addition and multiplication theorem of probability

8. Analysis of variance(ANOVA)

9. Describe the various measures of dispersion

**P.T.O**

QP CODE: 208006 **Section B** –Computer Applications

Marks: **50**

**Essay**

**(2x10=20)**

1. Explain in detail about various types of computer networks with suitable example
2. Discuss database management software (DBMS)

**Short notes**

**(6x5=30)**

3. Describe assembly language
4. Distinguish between CD and DVD
5. Explain how use of computers simplify in-process quality control
6. Computer architecture
7. Mention various roles of an operating system in normal functioning of a computer
8. Application of spread sheets

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