(OLD SCHEME)   **Reg.No: …………………...**

Second Year B.Pharm Degree Supplementary Examinations - March 2015

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 correlation co-efficient between the height (in inches) and weight (in kg)

   from the following

x	45	47	48	39	46	48	47	43
y	47	48	46	35	42	41	43	48

Short notes   **(8x5=40)**

2. Find $\frac{dy}{dx}$ if y = (sinx) sinx

3. Evaluate $\int x^2\ e^{-2x}\ dx$

4. Solve (D2 +5D+6)y = e^{2x}

5. Classification of data

6. State the Baye's theorem with an example

7. Show that L(sinat) = $\frac{s}{s^2+a^2}$

8. Calculate the standard deviation of following 11 patients whose hemoglobin levels

   11.2,   13.1,   12.5,   13.7,   14.0,   13.9,   14.3,   13.8,   12.9,   13.2,   13.6

9. Explain pie diagram with an example from pharmacy

                                                                    P.T.O

QP CODE: 208006   **Section B** –Computer Applications   Marks: **50**

Essay   **(2x10=20)**

1. Discuss the different types of operating systems in detail

2. Describe the various types of secondary storage devices

Short notes   **(6x5=30)**

3. Local area network (LAN)

4. Compilers and interpreters

5. High level language

6. Application of computers in clinical pharmacy

7. Utility of spread sheet in pharmacy

8. Input devices

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