(OLD SCHEME)   **Reg.No: …………………..**

Second Year B.Pharm Degree Supplementary Examinations - January 2016

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. Find the first derivative of $x = \dfrac{3at^2}{1+t^3}$, $y = \dfrac{3at}{1+t^3}$

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

2. Measures of Central Tendency

3. Pie diagram

4. Evaluate $\displaystyle\int_0^1 x(1-x)^{10}\,dx$

5. Evaluate $\displaystyle\int x^2 e^{-4x}\,dx$ by parts

6. Solve (D2+5D+6)y = 3sinx

7. Solve (D2-6D+9)y = e3x

8. Find the Laplace transform of L (1+eat+sin2t)

9. Find the Laplace transform of L [(t+2t)]

                                                                        P.T.O

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

Essay   **(2x10=20)**

1. Discuss the types of operating systems and its functions

2. Explain the role of computers in the field of pharmacy.

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

3. Medication history storage and retrieval

4. What is custom software and explain any one of the custom software

5. Define high level language and mention its uses

6. Differentiate internet and intranet

7. Embedded systems.

8. Virtual library

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