

(OLD SCHEME)

Reg.No:

Second Year B.Pharm Degree Supplementary Examinations - July 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. Discuss the diagrammatic representation of data with suitable examples

Short notes (8x5=40)

2. Differentiate $y = (\log x)^{\log x}$

3. If $x = a [t - \sin t]$, $y = a [1 - \cos t]$ then find the first derivative

4. Integrate $\int x e^{ax} dx$

5. Integrate $\int \frac{e^x + 1}{e^x} dx$

6. Solve $(D^2 - 6D + 5) y = 2x^2$.

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

8. Derive the Laplace transform of $L(e^{-t})$

9. Find the Laplace transform of $L(\sin^2 6t)$.

P.T.O

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

Marks: **50**

Essay

(2x10=20)

1. Explain the types of software with examples
2. Explain the components of MS Office.

Short notes

(6x5=30)

3. Medication history storage and retrieval
4. Compilers and interpreters
5. High level language
6. What are primary and secondary memory
7. What are search engines
8. Mention the abbreviations for the following

•WWW •LAN •WAN •RDBMS •DVD
