(OLD SCHEME)

Reg.No:

Second Year B.Pharm Degree Supplementary Examinations - July 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)

$$\int_{0}^{\pi/2} \frac{a\cos x + b\sin x}{\sin x + \cos x} dx$$
1. Evaluate

Short notes (8x5=40)

- 2. Find the first derivative if $y = \frac{1+x^2}{1-x^2}$
- 3. Differentiate y = (log x) log x
- 4. Solve (D2 (Read as D square) 6D + 5) $y = \sin 4x$
- 5. Solve (D2 (Read as D square) 3D + 2) y = e 5x (Read as e raised to 5x)
- 6. Find the Laplace transform of L[tsin3t]
- 7. Derive the Laplace transform of L [e -at (Read as e raised to minus at)]
- 8. Frequency polygon
- 9. Data Collection

P.T.O

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

Essay (2x10=20)

- 1. How computer systems are used in community and clinical pharmacy
- 2. Explain the modern computing devices with examples.

Short notes (6x5=30)

- 3. Plotters and scanners
- 4. What are the functions of a system software
- 5. What are different kinds of storage media and mention examples.
- 6. MS power point
- 7. Advantages of having a wireless network
- 8. Applications of computers in Pharmaceutical research and education
