

2010 Scheme

Reg. No:

Second Year B. Pharm Degree Supplementary Examinations December 2019

Mathematics, Biostatistics & Computer Applications

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 (10)

1. Calculate the Karl Pearson's Correlation coefficient (r) for the following

x	9	13	12	11	14	12	10
y	16	11	12	14	10	11	13

Short notes

(8x5=40)

2. Pie diagram with an example
3. Write a note on cumulative frequency curves with respective diagrams

4. Differentiate $y = \frac{x^2+1}{x^2-1}$

5. Integrate $\int xe^{2x} dx$

6. Evaluate $\int_0^{\pi/2} \frac{\sqrt{\sin x}}{\sqrt{\sin x} + \sqrt{\cos x}} dx$

7. Solve $(D^2 + 3D + 2)y = e^{4x}$

8. Find the Laplace transform of $L\left(e^t + \frac{1}{e^t}\right)^2$

9. Find the Laplace transform of $L[\text{tsin}3t]$

P.T.O

QP CODE: 208006 Section B –Computer Applications

Marks: 50

Essay

(2x10=20)

1. Describe the various types of input and output devices
2. Explain the types of modern computing devices and its advantages

Short notes

(6x5=30)

3. Explain the Assembly language
4. Explain advantages of internet usage in pharmacy field
5. Explain RDBMS
6. Discuss any two types Secondary storage devices
7. Elucidate the office package software
8. Explain computer network
