

Parvatibai Chowgule College of Arts and Science
Autonomous

Semester: II

Subject: Software Development

Title: Mathematical Foundation

Duration: 0.5 Hours

Max. Marks: 10

Instructions: 1. All questions are compulsory
2. Figures to the right indicate marks

Q1. Add the following binary numbers (2)

- a. $10011011 + 11011$
- b. $100110 + 1111111111$

Q2. Multiply the following numbers (3)

- a. $1001101 * 11$
- b. $1111 * 10$

Q3. Solve the following (5)

- a. Subtract $100101 - 111$
- b. Find 2's complement of the above result.
- c. Multiply the result of (b) with 011