

St. Mira's College for Girls, Pune
(Autonomous-Affiliated to SavitribaiPhule Pune University)
Class: FYBSC Computer Science
Subject: Discrete Mathematics
Subject Code: BS12003
Semester: I
Year: 2021-22

1. Unit No.: 1
2. Employability/Entrepreneurship/Skill development
Skill Development : Problem Solving, computing skills
3. Test on Boolean Algebra using Google Form

3/19/22, 12:02 PM FYBSC Internal Exam 2

FYBSC Internal Exam 2
10-01-2022 Marks 15

Q.1) Write the following posets and draw their Hasse Diagrams. (4 Marks) 1) D120 - The set of all divisors of 120 2) D 150 - The set of all divisors of 150

✓ 1) - 5433_tanu sl...

Q.2) Let $A = \{a, b, c\}$. Define R on $P(A)$ the power set of A as $X R Y$ iff X is a subset of Y . Then write the set R . Draw the Hasse diagram of R and write the atoms in it. (3 Marks)

✓ 2) - 5433_tanu sl...

Q.3) Prepare the MEET Table for the poset D45 - The set of all divisors of 45 and find complement of each element of D45. (3 Marks)

✓ 3) - 5433_tanu sl...

Q.4) Find CNF and DNF of the following Boolean Function using truth table. (5 Marks) $f(x, y, z) = (x \cdot y) + (x' \cdot y' \cdot z)$ where x' and y' are complements of x and y respectively.

✓ 4) - 5433_tanu sl...

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Google Forms

https://docs.google.com/forms/d/1GFVqu21uP5rmaZV1qPCYB-MYHbV_RXeudf0xI5q-Yiedit/#response=ACYDBNjBewwixmMPA3tGOf-vU4po-O... 1/1



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