**INTERNAL ASSIGNMENT SET-I**

**SESSION**

**FEB/MAR 2021**

**PROGRAMME**

**MASTER OF COMPUTER APPLICATIONS (MCA)**

**SEMESTER**

**I**

**COURSE CODE & NAME**

**DCA6103 – FOUNDATION OF MATHEMATICS**

1. **a) Out of 30 students in dormitory, 15 take an art course, 8 take a biology course of 6 take a chemistry course. It is known that 3 students take all the three courses. Show that 7 or more students take none of the courses.**

**Ans 1.**

There are total 30 students.

Out of which 3 took all the three courses. So, students remained = 30 - 27.

Students who took arts course = 15, out of these 15 students, 3 students are also included who took all the three courses.

Students who took biology course = 8, out of these 8 students, 3 students are also included

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1. **a) Simplify the following statements:**

Answer:

(Using by DeMorgan's Double Negation Laws)

****

= ~p ˄ q



= p ˅ ~q



1. **3. a) Find the nth derivative of 𝒆𝒙(𝟐𝒙+𝟑)𝟑**
2. Answer:
3. 𝒆𝒙(𝟐𝒙+𝟑)𝟑= y

**b) Evaluate:** ∫ (𝟑𝒕 + 𝟓)co𝒔 (𝒕/𝟒) **dt**

∫udv = uv - ∫vdu

u = 3t+5 ⇒ du = 3dt