**ME370: ADAMS LAB**



**Department of Mechanical Engineering,**

**IIT Bombay**



**Session 9 Report**

**Group / Section:** A8

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**Roll Number:** 200020023



**Date:** March 30,2023

**Given Information**

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|  | Information for Q1 | | | | | |
| Parameters | Force Amplitude | m1 | m2 | k1 | k2 | |
| Values | 100 N | 7 | 4 | 2 | | 3 |

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| --- | --- | --- | --- | --- | --- |
|  | Information for Q2 | | | | |
| Parameters | Amplitude Y | m | k | c | |
| Values | 1m | 6 | 7 | | 4 |

**INPUTS:**

**2**

* Range of Frequency Variation: [0 Hz, 20 Hz].
* Range of Damping Coefficient Variation: [10 Ns/m, 500 Ns/m].

**Question 1 (Composite Spring Mass System)**

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| **ISOMETRIC VIEW OF SPRING MASS SYSTEM** |
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| **FREQUENCY RESPONSE OF MASS m1** |
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**Question 2 (Spring Mass Damper System)**

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| **ISOMETRIC VIEW OF SPRING MASS DAMPER SYSTEM** |
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| **VARIATION OF TRANSMISSIBILITY WITH FREQUENCY** |
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| **VARIATION OF MAXIMUM VALUE OF**  **TRANSMISSIBILTY WITH DAMPING COEFFICIENT** |
|  |

—X—X—X—X— X—X—X — X—**END**— X—X— X—X— X—X— X—X—