**ME370: ADAMS LAB**

**Department of Mechanical Engineering,**

**IIT Bombay**



**Session 1 Report**

**Group:** 8A

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**Date:** January 23,2023

**Question 1 (Simple Pendulum)**

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| **VARIATION OF ANGLE BETWEEN**  **PENDULUM AND AXIS WITH TIME** |
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| **ZOOMED IMAGE OF 20TH CYCLE** |
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**RESULT:**

Angle made by the link with the vertical at the end of 20 cycles is **90.007** Degrees

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| **ISOMETRIC VIEW** |
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**Question 2 (Compound Pendulum)**

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| **DISPLACEMENT OF TIP OF PENDULUM THROUGH 5 CYCLES** |
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| **TRACE OF LOCUS OF TIP OF PENDULUM** |
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| **ISOMETRIC VIEW** |
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**Question 3 (4-Bar Linkage)**

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| **MAGNITUDE OF DISPLACEMENT OF**  **MIDPOINT OF ROCKER VS TIME** |
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| **X & Y DISPLACEMENT OF MIDPOINT OF ROCKER VS TIME** |
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| **ANGLE BETWEEN ROCKER & GROUND LINK VS TIME** |
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| **ISOMETRIC VIEW** |
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**Question 4 (Slider Crank Mechanism)**

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| **MAGNITUDE OF DISPLACEMENT OF MIDPOINT**  **OF CONNECTING ROD VS TIME** |
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| **X & Y DISPLACEMENT OF MIDPOINT**  **OF CONNECTING ROD VS TIME** |
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| **ANGLE BETWEEN CONNECTING ROD**  **& HORIZONTAL VS TIME** |
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| **ISOMETRIC VIEW** |
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