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MTH622 QUIZ#4 FILE

SOLVED BY SANAULLAH KHAN

CONTACT NO:03066793776

Subject Enrolment

1. Online classes are available (Mathematics)
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4. Past papers
5. Any info about virtual university of Pakistan

Final project (MTH620)

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(03066793776)

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sec(s)

MTH622:Quiz no.4

Quiz Start Time: 09:00 PM, 10 March 2022

Question # 1 of 5 (Start time: 09:00:50 PM, 10 March 2022)

Total Marks: 1

The moment of inertia of a rigid body about a given axis is
equal to the same about a parallel axis through the centroid plus
the moment of inertia due to the total mass placed at the centroid.

Select the correct option

- false
- true

Click to Save Answer & Move to Next Question

9:01 PM
3/10/2022

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Time Left sec(s)

MTH622:Quiz no.4

Quiz Start Time: 09:00 PM, 10 March 2022

Question # 2 of 5 (Start time: 09:01:24 PM, 10 March 2022)

Total Marks: 1

If a time dependent vector function $\vec{A}$ is represented by $\vec{A}_f$ and $\vec{A}_r$ in fixed and rotating coordinate systems, then $\left(\frac{d\vec{A}}{dt}\right)_f = \left(\frac{d\vec{A}}{dt}\right)_r + \omega \times \vec{A}_r$ where it is not necessary that the origins of the two systems coincide initially.

Select the correct option

Reload Math Equations

- false
- true

Click to Save Answer & Move to Next Question

9:01 PM
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Question # 3 of 5 (Start time: 09:01:55 PM, 10 March 2022) Total Marks: 1

Point, where the total volume of the body is assumed to be concentrated is----.

Select the correct option

Reload Math Equations

- centroid of mass
- center of area
- centroid of volume
- all of the mentioned

Click to Save Answer & Move to Next Question

9:02 PM
3/10/2022

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sec(s)

MTH622:Quiz no.4 Quiz Start Time: 09:00 PM, 10 March 2022

Question # 4 of 5 (Start time: 09:02:50 PM, 10 March 2022) Total Marks: 1

The principal moment of inertia matrix is a

Select the correct option

- identity matrix
- diagonal matrix

Click to Save Answer & Move to Next Question

9:03 PM
3/10/2022

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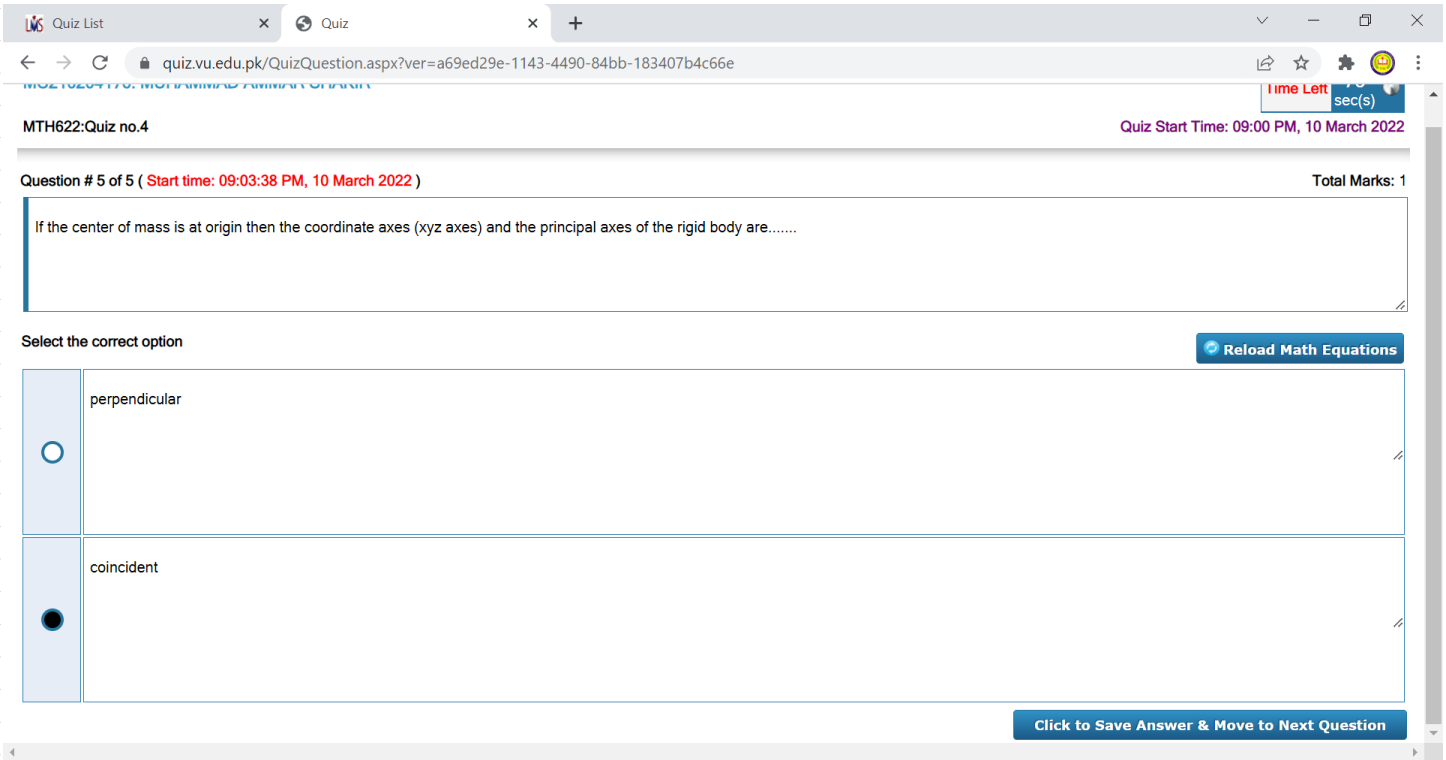

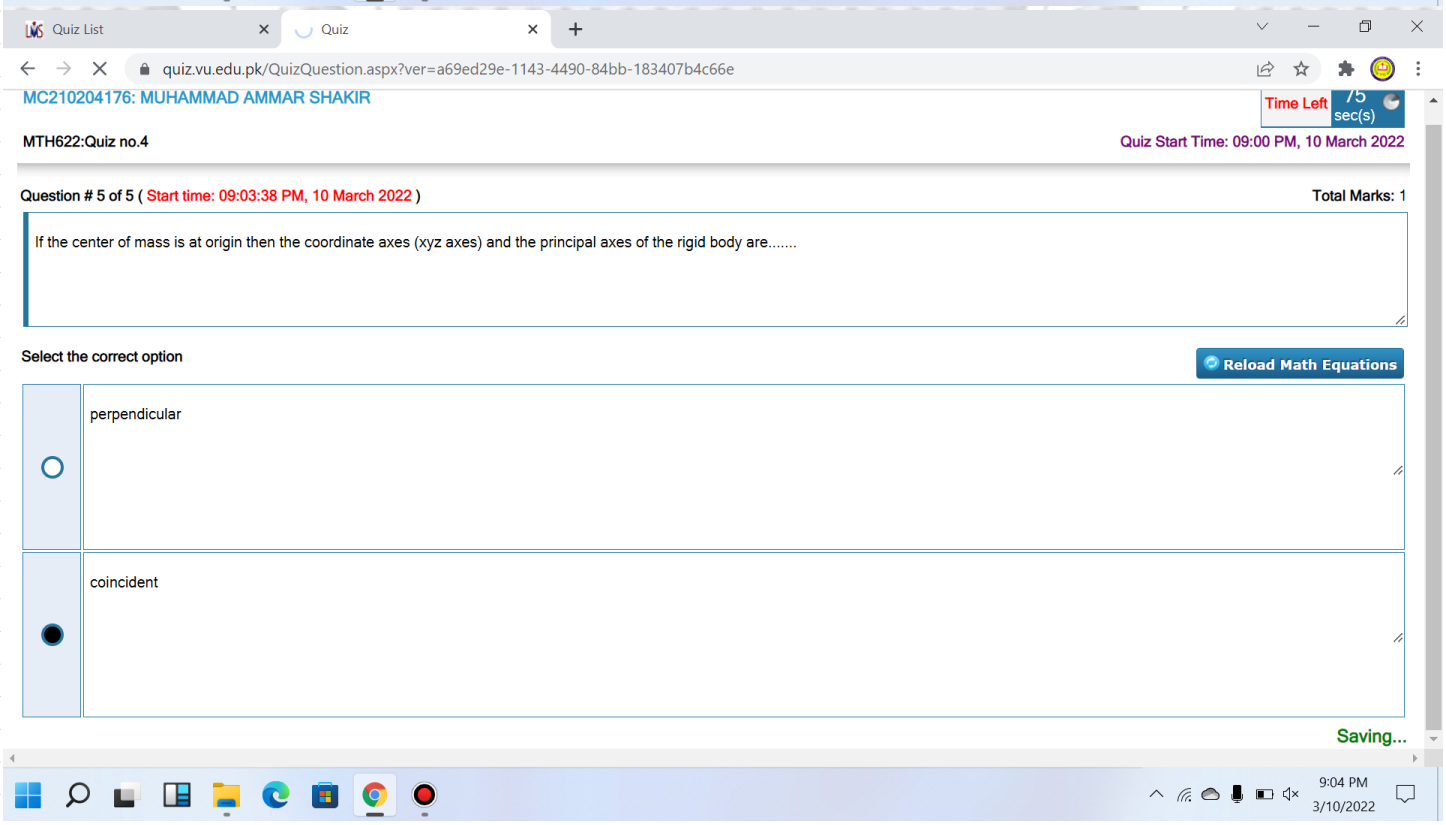

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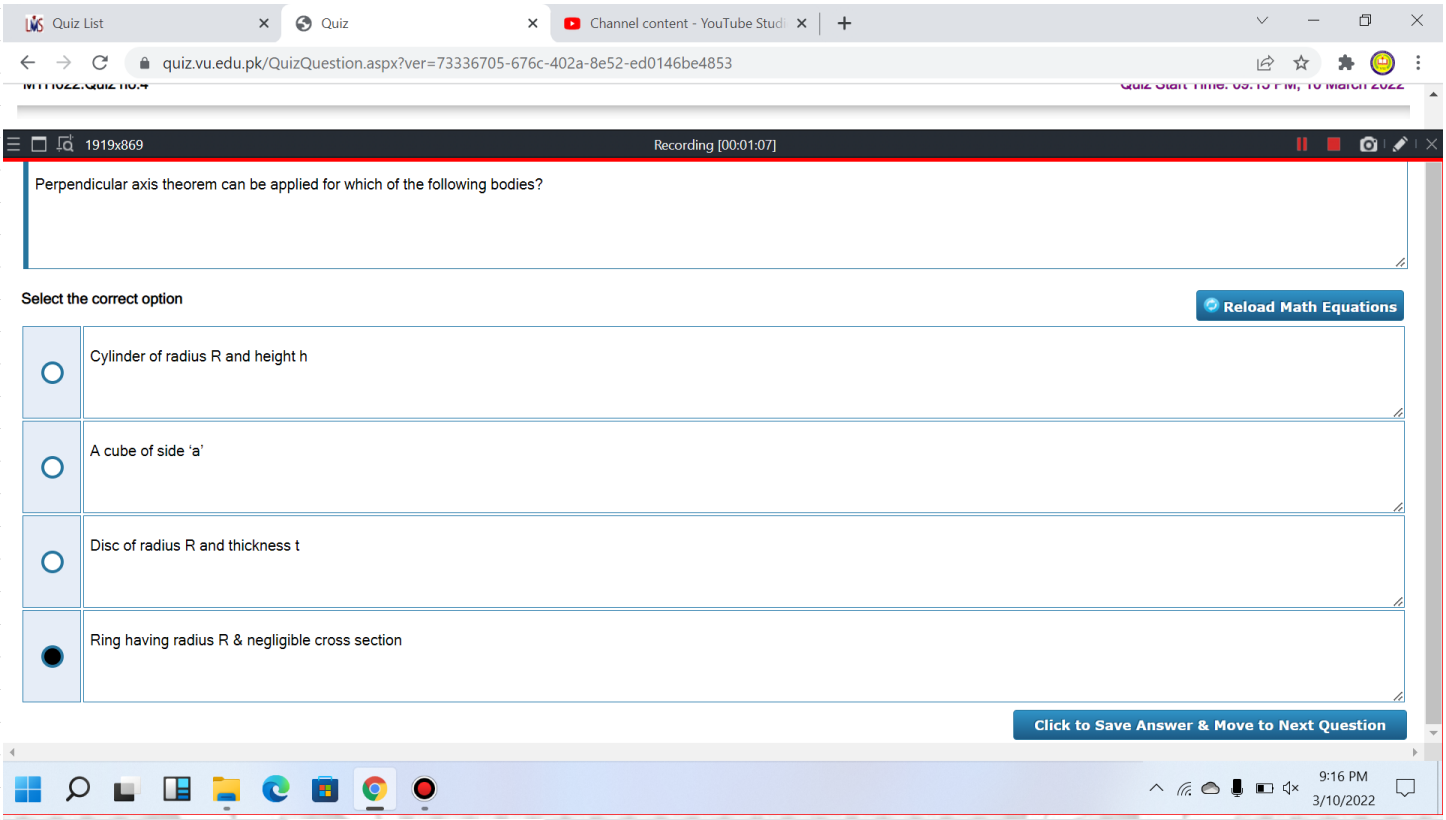

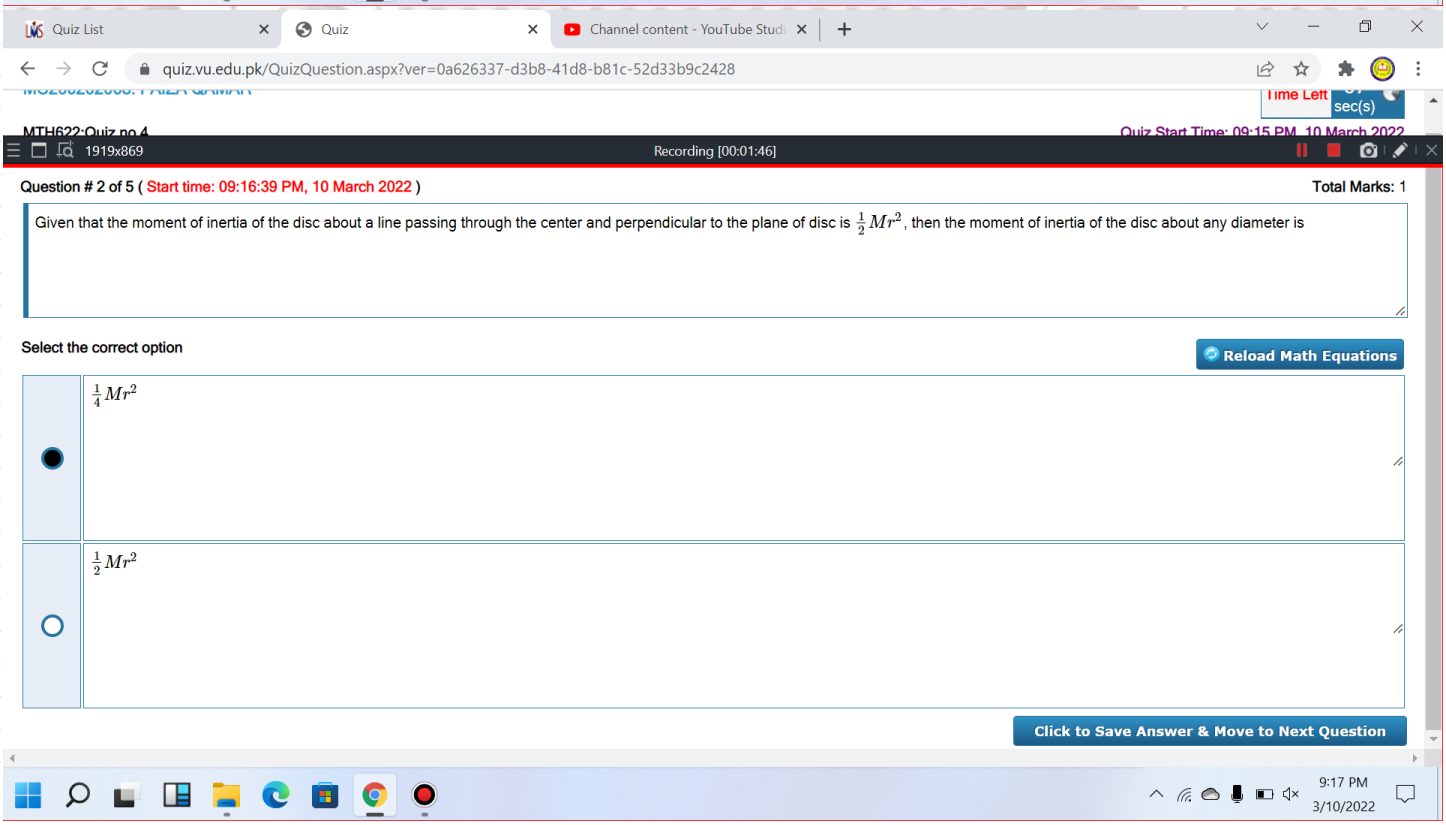

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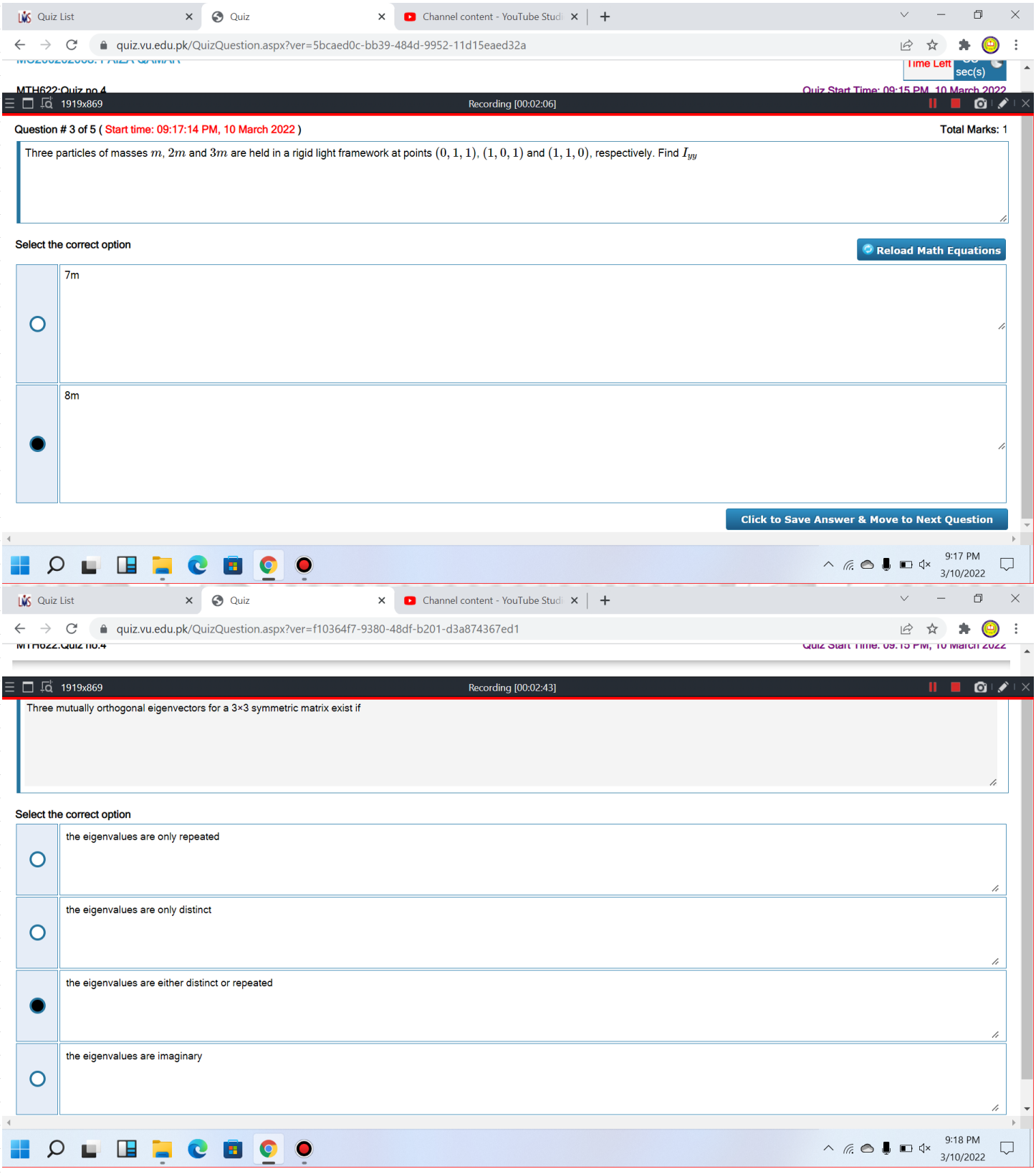

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MTH622:Quiz no 4 — Quiz Start Time: 09:15 PM, 10 March 2022

1919x869 Recording [00:03:19]

Question # 5 of 5 (Start time: 09:18:17 PM, 10 March 2022) **Total Marks: 1**

Three particles of masses m, $2m$ and $3m$ are held in a rigid light framework at points $(0, 1, 1)$, $(1, 0, 1)$ and $(1, 1, 0)$, respectively. Find I_{xx}

Select the correct option

Reload Math Equations

- ○ 8m
- ● 7m

Click to Save Answer & Move to Next Question

9:18 PM 3/10/2022

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Question # 1 of 5 (Start time: 09:30:12 PM, 10 March 2022) **Total Marks: 1**

The axis about which moment of area is taken is known as --------.

Select the correct option

Reload Math Equations

- ○ axis of area
- ○ axis of moment
- ● axis of reference
- ○ axis of rotation

Click to Save Answer & Move to Next Question

9:30 PM 3/10/2022

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MTH622:Quiz no.4

Quiz Start Time: 09:30 PM, 10 March 2022

Question # 2 of 5 (Start time: 09:30:53 PM, 10 March 2022)

Total Marks: 1

Three particles of masses m, $2m$ and $3m$ are held in a rigid light framework at points $(0, 1, 1)$, $(1, 0, 1)$ and $(1, 1, 0)$, respectively. Find I_{yy}

Select the correct option

Reload Math Equations

- 8m
- 7m

9:31 PM 3/10/2022

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sec(s)

MTH622:Quiz no.4

Quiz Start Time: 09:30 PM, 10 March 2022

Question # 3 of 5 (Start time: 09:31:08 PM, 10 March 2022)

Total Marks: 1

The moment of inertia of a plane rigid body about an axis perpendicular to the body is equal to the difference of the moment of inertia about two mutually perpendicular axis lying in the plane of the body and meeting at the common point with the given axis.

Select the correct option

- false
- true

Click to Save Answer & Move to Next Question

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Time Left sec(s)

MTH622:Quiz no.4

Quiz Start Time: 09:30 PM, 10 March 2022

Question # 4 of 5 (Start time: 09:31:25 PM, 10 March 2022) Total Marks: 1

If a time dependent vector function $\vec{A}$ is represented by $\vec{A}_f$ and $\vec{A}_r$ in fixed and rotating coordinate systems, then $\left(\frac{d\vec{A}}{dt}\right)_f = \left(\frac{d\vec{A}}{dt}\right)_r + \omega \times \vec{A}_r$ where it is not necessary that the origins of the two systems coincide initially.

Select the correct option

Reload Math Equations

- true
- false

Click to Save Answer & Move to Next Question

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Time Left sec(s)

MTH622:Quiz no.4

Quiz Start Time: 09:30 PM, 10 March 2022

Question # 5 of 5 (Start time: 09:31:53 PM, 10 March 2022) Total Marks: 1

Three particles of masses m, $2m$ and $3m$ are held in a rigid light framework at points $(0, 1, 1)$, $(1, 0, 1)$ and $(1, 1, 0)$, respectively. Find I_{zz}

Select the correct option

Reload Math Equations

- 9m
- 8m

Click to Save Answer & Move to Next Question

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