

“Dissemination of Education for Knowledge, Science and Culture”

- Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur

(Autonomous)

Department of Physics

ICT based CIE

on

B.Sc. I: Internal Examination of Mechanics

Conducted by

Dr. S. I. Inamdar

on

Date: 29/07/2021, Time: 12:00 to 01:00 pm

(2020 – 21)

Vivekanand College, Kolhapur. (Autonomous)Dept. of Physics Internal evaluation examination 2020-21

B.Sc. I SEM I

Subject: Physics paper I

Title: Mechanics

Date:29/07/2021

Time: 12:00 to 01:00 pm

Marks: 20

Instructions: 1. All questions are compulsory
2. Each question carry 2 mark
3. Submit Google form in scheduled time .

* Indicates required question

1. Email *

2. Email ID *

3. Name *

4. Mobile No. *

5. Roll No. *

6. The number of independent variables in an ordinary differential equation is----- *

Mark only one oval.

1

2

3

4

7. The ordinary differential equation involves----- *

Mark only one oval.

a) only dependent variable

b) only independent variable

c) total derivatives

d) partial derivatives

8. Newton's second law of motion is given by *

Mark only one oval.

a) $F=mv$

b) $F=mt$

c) $F=m/a$

d) $F=ma$

9. Non-inertial frame of reference is -----frame of reference *

Mark only one oval.

- a) accelerated
- b) un accelerated
- c) inertial
- d) mechanical

10. The whole mass of the body is concentrated at a point called----- *

Mark only one oval.

- a) Geometric center
- b) Center of gravity
- c) center of mass
- d) center of force

11. The fundamental force which holds the planets in their orbits around the sun is ---- *
-----force of attraction.

Mark only one oval.

- a) Electromagnetic
- b) Nuclear
- c) Electrostatic
- d) Gravitational

12. A valid solution of differential equation of S.H.M. is ----- *

Mark only one oval.

- a) $x = a^2 \sin(\omega t + \alpha)$
- b) $x = a \sin(\omega t + \alpha)$
- c) $x^2 = a \sin(\omega t + \alpha)$
- d) $x^2 = a^2 \sin(\omega t + \alpha)$

13. For over damped oscillatory motion ----- *

Mark only one oval.

- a) $\mu^2 > \omega^2$
- b) $\mu^2 = \omega^2$
- c) $\mu^2 < \omega^2$
- d) $\mu > \omega$

14. When a beam is fixed at one end and loaded at the other end the middle filament which is neither compressed nor elongated is called ----- *

Mark only one oval.

- a) Plane of bending
- b) neutral axis
- c) neutral surface
- d) axis of beam

15. The quantity Yak^2 is called ----- *

Mark only one oval.

- a) Geometrical M.I.
- b) flexural rigidity
- c) bending moment
- d) inertia

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Vivekanand College, Kolhapur. (Autonomous)Dept. of Physics Internal evaluation examination 2020-21

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Email ID

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adityapatakure05@gmail.com

jafarmujawar2211@gmail.com

prachimaskar30@gmail.com

swarupgadave2002@gmail.com

jambhalepayal712@gmail.com

manasidangare1829@gamile.com

vinu8007059134@gmail.com

Chavanruchita2002@gmail.com

shivanitashildar9@gmail.com

pournimahiremath03@gmail.com

Harshkopardekar@gmail.com

sattyapatil7979@gmail.com

Aniketmetkar881@gmail.com

shivanitodakar22@gmail.com

ankitahot012@gmail.com

devendrachavan3076@gmail.com

rutuja983@gmil.com

sourbh9898@gmail.com

madhavishingare817@gmail.com

anjalighorpade2002@gmail.com



Shankarjadhav987654321@gmail.com

Sakshimirajkar20@gmail.com

snehalkoli127@gmail.com

Gouravdadarne@gmail.com

alokpadmakar27@gmail.com

vaishnavinjadhav2002@gmil.com

Rutikthakare50@gmail.com

Ashutosh.gharage

rutvikpatil0109@gmail.com

Pratikshamane2022@gmail.com

alavekarsoundarya@gmail.com

tejaschougale007@gmail.com

Aaryanpatil616@gmail.com

Shivanichougale72@gmail.com

yashchougule1234567@gmail.com

pranav0271@gmail.com

aditikshirsagar35@gmail.com

omkarpatilop946@gmail.com

amritraj330607@gmail.com

pavansarnaik4901@gmail.com

samirachhalwadi@gmail.com

3sabreennadaf@gmail.com



sujitgchavhan@gmail.com

vinayakdevekar18428@gmail.com

nikhilpatil8642@gmail.com

salonamulla0099@gmail.com

Samirachhalwadi@gmail.com



Name

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Aditya patakure

Jafar Nisar Mujawar

Prachi Prashant Maskar

Swarup Krushnat Gadave

Payal Sampat jambhale

Manasi

Vinayak gosavi

Ruchita Bajirao Chavan

Shivani Namdev Tashildar

Pournima Nagayya Hiremath

Harshavardhan kopardekar

Pati Satyajeet sanjay

Aniket Ananda Metkar

Shivani Dipak Todakar

Ankita khot

Devendra somnath chavan

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Madhavi Dhondiram Shingare

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Nadaf sabreen rafik



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Vinayak dattatray devekar

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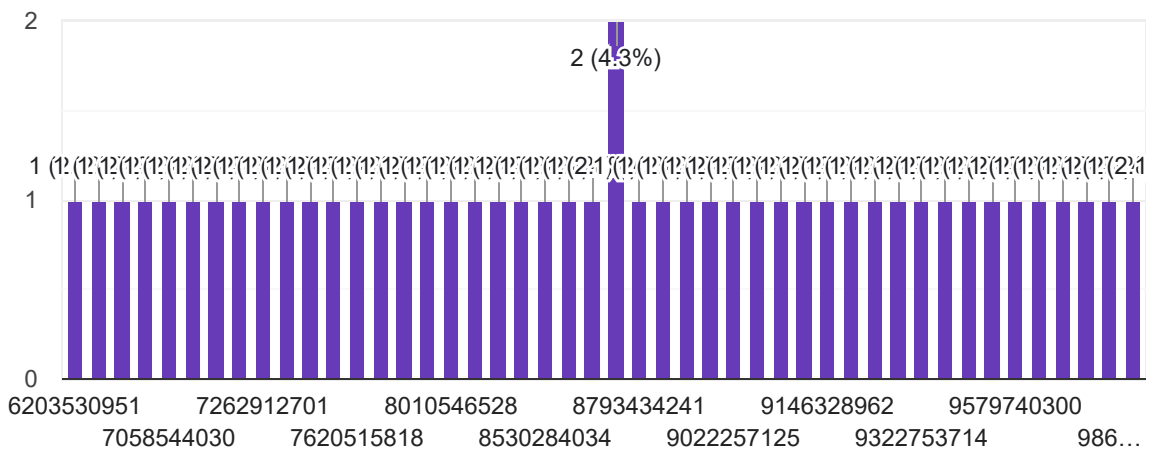
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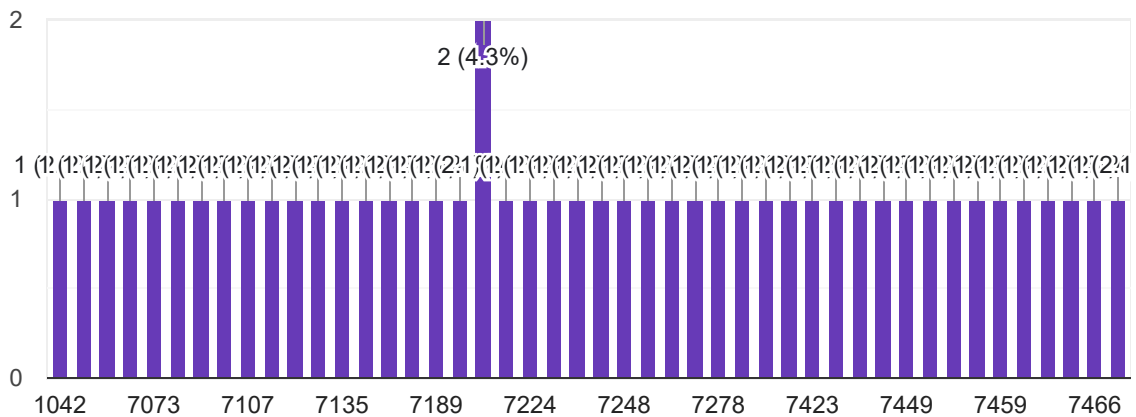
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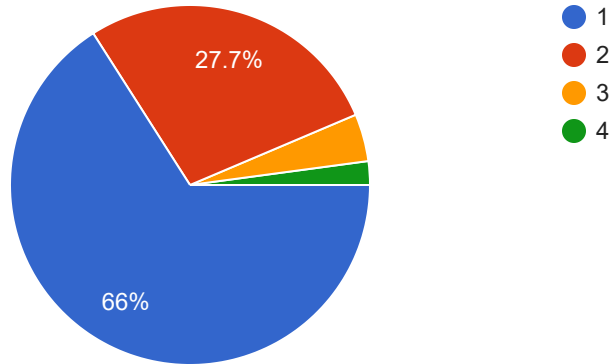
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The number of independent variables in an ordinary differential equation is-----

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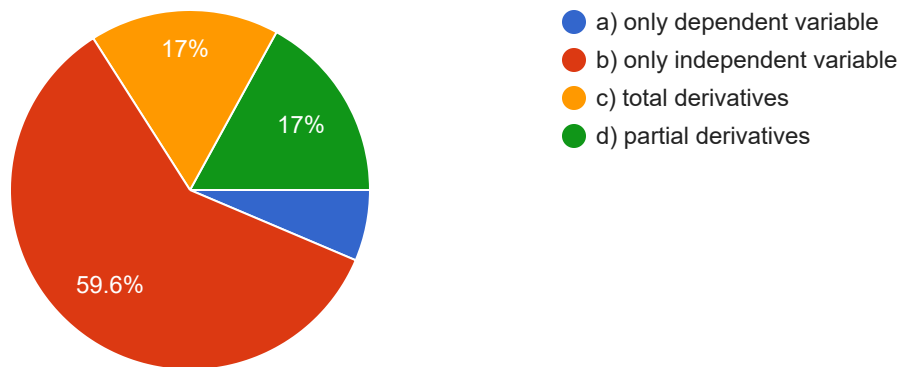
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The ordinary differential equation involves-----

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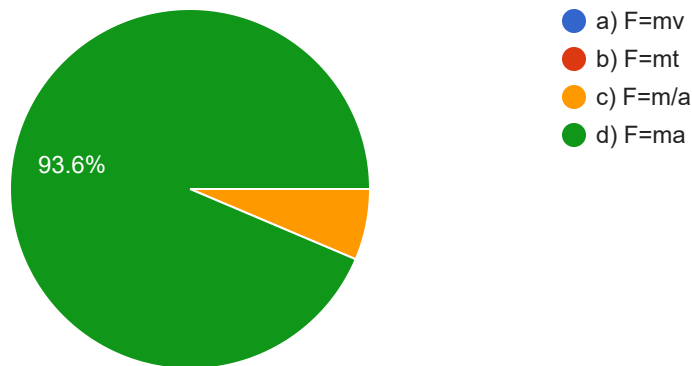
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Newton's second law of motion is given by

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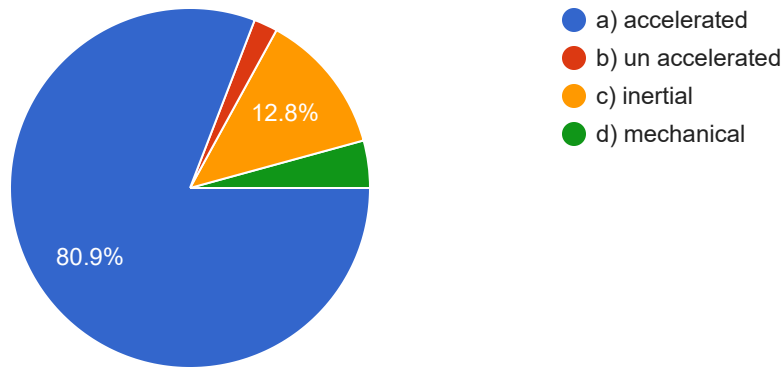
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Non-inertial frame of reference is -----frame of reference

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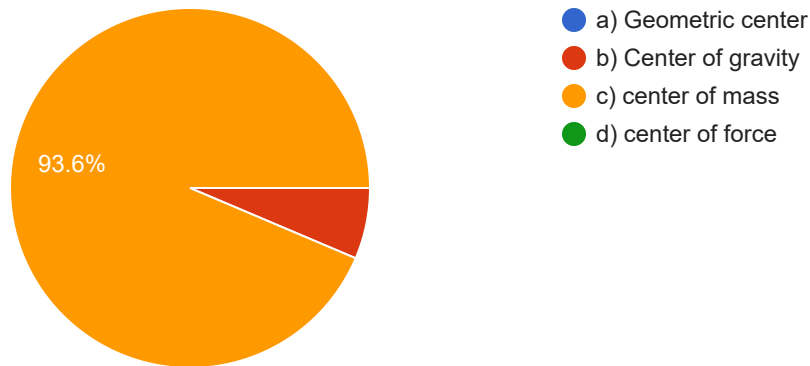
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The whole mass of the body is concentrated at a point called-----

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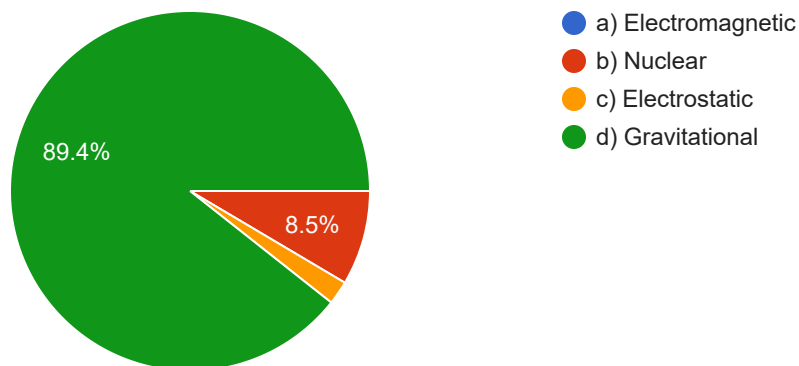
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The fundamental force which holds the planets in their orbits around the sun is -----force of attraction.

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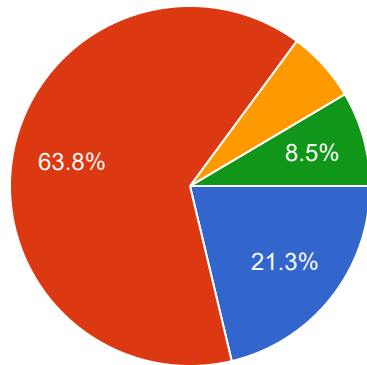
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A valid solution of differential equation of S.H.M. is -----



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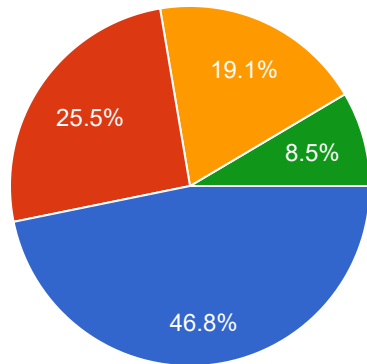


- a) $x = a^2 \sin(\omega t + \alpha)$
- b) $x = a \sin(\omega t + \alpha)$
- c) $x^2 = a \sin(\omega t + \alpha)$
- d) $x^2 = a^2 \sin(\omega t + \alpha)$

For over damped oscillatory motion -----



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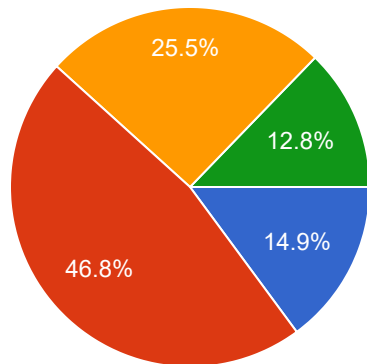


- a) $\mu^2 > \omega^2$
- b) $\mu^2 = \omega^2$
- c) $\mu^2 < \omega^2$
- d) $\mu > \omega$

When a beam is fixed at one end and loaded at the other end the middle filament which is neither compressed nor elongated is called -----



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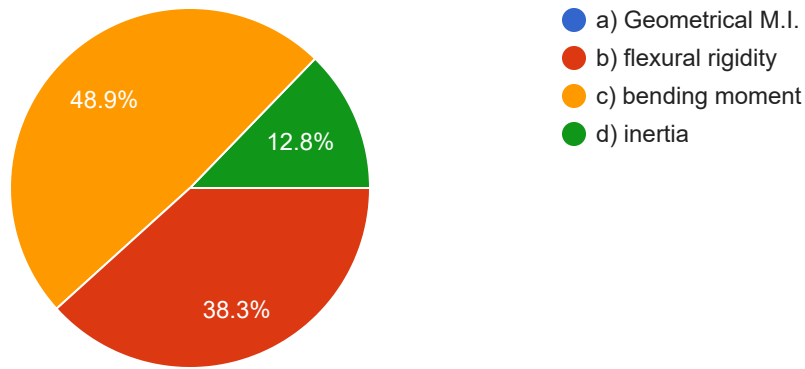
- a) Plane of bending
- b) neutral axis
- c) neutral surface
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The quantity Yak^2 is called -----

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