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- 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

Mr. A. V. Patil

on

Date: 13-08-2021, Time: 11.00 am to 11.30 am

(2020 - 21)

B.Sc. (Part-I) Semester- I, Subject : Physics

Paper No. : I Title: Mechanics

Date: 13-08-2021,

Time: 11.00 am to 11.30 am

Attempt any 20 Total Marks: 40

at 1	1.5					4.5
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1.	Email *
2.	Name *
3.	PRN No. *
4.	Seat No. *
5.	Mark only one oval. Option 1

6.	1. The scalar product of a vector with itself is equal to*	2 points
	Mark only one oval.	
	a) Its magnitude	
	b) Square of its magnitude	
	c) Zero	
	d) Infinity	
7.	2. The magnitude of the resultant of the two unit vectors i and j is *	2 points
	Mark only one oval.	
	o	
	\bigcirc $\sqrt{2}$	
	2	
	\bigcirc $\sqrt{3}$	
8.	3. Velocity (v) is a order derivative position vector of vector (r) with respect to the parameter	* 2 points
	Mark only one oval.	
	first	
	second	
	third	
	four	

9.	4. The number of independent variables in an ordinary differential equation is	* 2 points
	Mark only one oval.	
	a) 1	
	b) 2	
	c) 3	
	d) 4	
10.	5. The ordinary differential equation involves *	2 points
	Mark only one oval.	
	a) only dependent variable	
	b) only independent variable	
	c) total derivatives	
	d) partial derivatives	
11.	Newton's second law of motion is given by *	2 points
	Mark only one oval.	
	a) F=mv	
	b) F=mt	
	c) F=m/a	
	d) F=ma	

12.	7. The state of rest is also state of uniform motion with zero *	2 points
	Mark only one oval.	
	a) acceleration	
	b) mass	
	c) velocity	
	d) momentum	
13.	8. Non-inertial frame of reference isframe of reference *	2 points
	Mark only one oval.	
	a) accelerated	
	b) un accelerated	
	c) inertial	
	d) mechanical	
14.	9. The whole mass of the body is concentrated at a point called*	2 points
		'
	Mark only one oval.	
	a) Geometric center	
	b) Center of gravity	
	c) center of mass	
	d) center of force	

15.	10. Just as force produces linear motion, produces rotational motion * 2 points
	Mark only one oval.
	a) torque
	b) moment of inertia
	c) angular momentum
	d) angular acceleration
16.	11. If the total force acting on a system of a particles is zero, then of * 2 points the particle or system is conserved
	Mark only one oval.
	a) linear momentum
	b) angular momentum
	c) kinetic energy
	d) energy
17.	12. If the frame of reference is changed then * 2 points
	Mark only one oval.
	a) the value of physical quantity is not changed
	b) the physical laws are changed
	c) the conservative laws are changed
	d) the conservative laws are obeyed

18.	13. The fundamental force which holds the planets in their orbits around the sun isforce of attraction.	* 2 points
	Mark only one oval.	
	a) Electromagnetic	
	b) Nuclear	
	c) Electrostatic	
	d) Gravitational	
19.	14. The weight of an object of mass 10 kg on the earth is*	2 points
	Mark only one oval.	
	a) 9.8 N	
	b)9.8 kg	
	c) 98 N	
	d) 98 kg	
20.	15. A valid solution of differential equation of S.H.M. is*	2 points
	Mark only one oval.	
	a) $x = a2 \sin(\omega t + \alpha)$	
	b) $x = a \sin(\omega t + \alpha)$	
	c) x2 = a sin (ω t + α)	

4	21.	16. For over damped oscillatory motion*	2 points
		Mark only one oval.	
		a) μ2 > ω2	
		b) μ2 = ω2	
		c) μ2 < ω2	
		\bigcirc d) $\mu > \omega$	
	22.	17. 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	* 2 points
		Mark only one oval.	
		a) Plane of bending	
		b) neutral axis	
		c) neutral surface	
		d) axis of beam	
4	23.	18. The quantity Yak^2 is called*	2 points
		Mark only one oval.	
		a) Geometrical M.I.	
		b) flexural rigidity	
		c) bending moment	
		d) inertia	

24.	19. The special theory of relativity was developed by*	2 points
	Mark only one oval.	
	a) Einstein	
	b) Newton	
	c) Galileo	
	d) Lorentz	
25.	20. According to Einstein, the velocity of light in free space is*	2 points
	Mark only one oval.	
	a) dependent	
	b) variable	
	c) constant	
	d) infinite	
26.	21. Who did give the helio-centric theory?*	2 points
	Mark only one oval.	
	a) Copernicus	
	b) Tycho-brahe	
	c) Kepler	
	d) Galileo	

27.	22. In the forced vibratory motion the frequency of vibration of body should be	* 2 points
	Mark only one oval.	
	a) Greater than the frequency of external force	
	b) Less than the frequency of external force	
	c) Equal to the frequency of external force	
	d) Half the frequency of external force	
28.	23. Mass increases with velocity by relation*	2 points
	Mark only one oval.	
	a) m = m0/ [$\sqrt{(1-v2/c2)}$]	
	b) m = m0 [$\sqrt{(1-v2/c2)}$]	
	c) m = $m0/[(1-v2/c2)]$	
	d) m = m0/ [$\sqrt{(1-v/c)}$]	
29.	24. The term (C/θ) is called as*	2 points
	Mark only one oval.	
	a) twist per unit torque	
	b) couple per unit twist	
	c) force per unit twist	
	d) force per unit torque	

30.	25. When wire is twistedis set up in the wire *	2 points
	Mark only one oval.	
	a) restoring couple	
	b) defecting couple	
	c) restoring force	
	d) deflecting force	

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B.Sc. (Part-I) Semester- I, Subject: Physics

50 responses

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50 responses			
Prem Kumar			
Aniket patil			
XYZ			
Sahil			
SWAGAT DADASO SUTAR			
SOURABH KRISHNAT NERLEKAR			
Swapnil sanjay khot			
Sumit Rajendra Navale			
Mitali Vijay naik			
Abhilasha Avinash Yadav			
Sakshi Bajirao Patil			
Avdhoot Laxman Patil			
Kallesh chandrakant khekare			
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Dayasagar awale			
Aditya Kumar bagade			
Prashant Vishal Powar			
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Atul Dhondiram Powar			



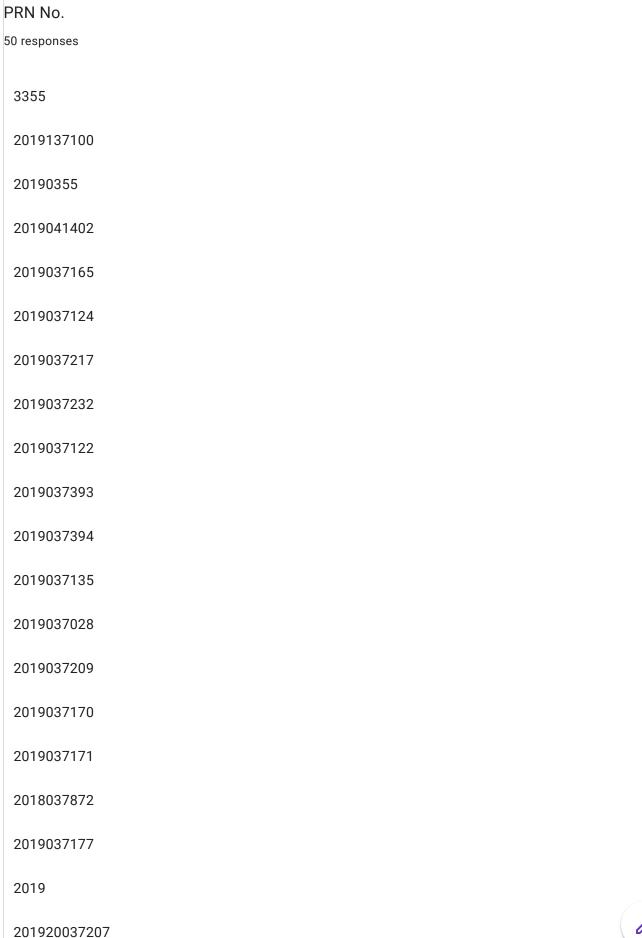
Manoj Sanjay Kamble

Swapnil Arjun chaluche	
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Pavan Dhanaji Patil	
Pratik Pradip Chavan	
Yogiraj shivaji shevale	
rajvardhan satappa magdum	
Nayan Harishchandra Shinde	
Vishwajeet sutar	
Prathamesh sunil tashildar	
Sohan Patil	
Harshwardhan Diliprao Deshmukh	
Sammed Rajgonda Patil	
Fadtare Sourabh Pratap	
Digvijay Satappa Pankar	
Niranjan Annasaheb Patil	
Ankita	
Digvijay	
Dhanashree Anand Raval	
komal laxman kharat	
SHUBHAM ANANT SHIVATANKAR	
Saiprasad Shrinivas Yadav	
Sushant dhokare	1



Rohan tanaji lohar	
Saurav Vishnu Gumane	
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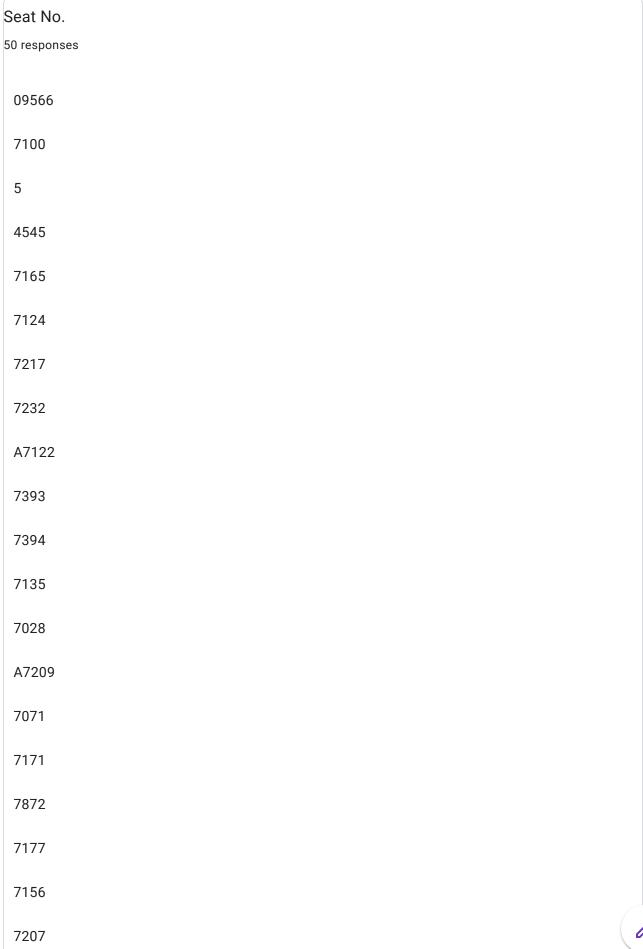






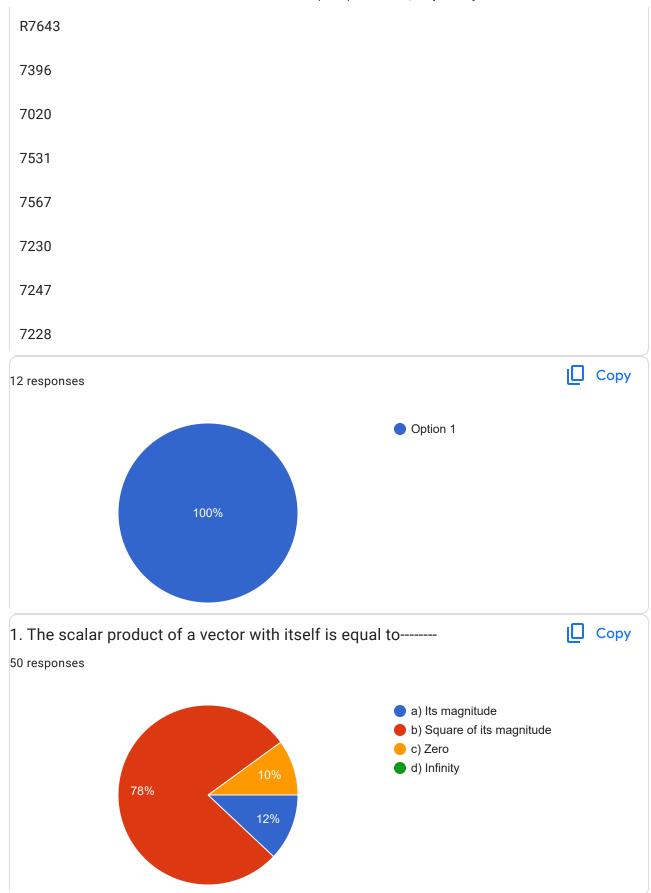
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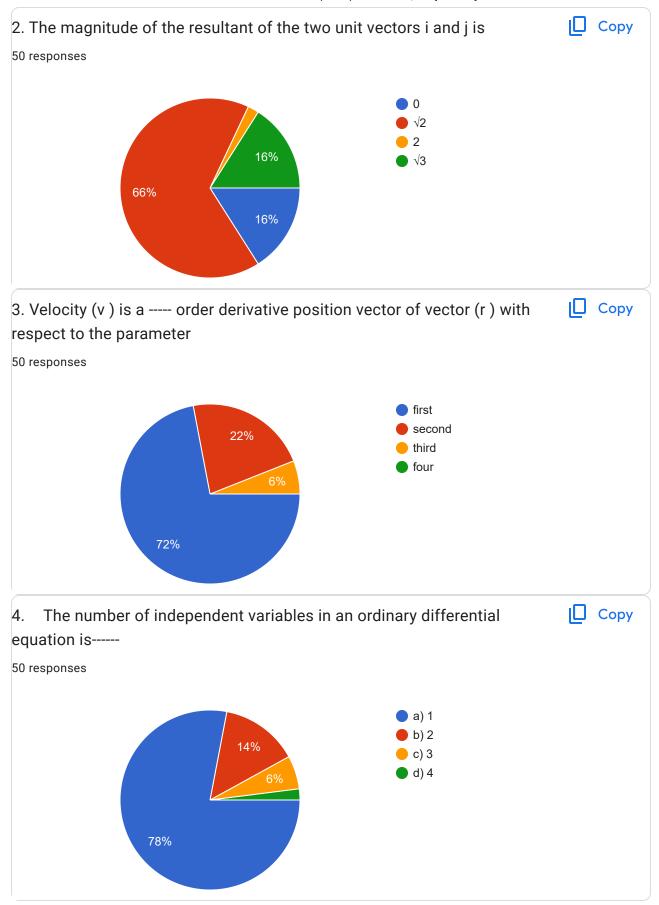




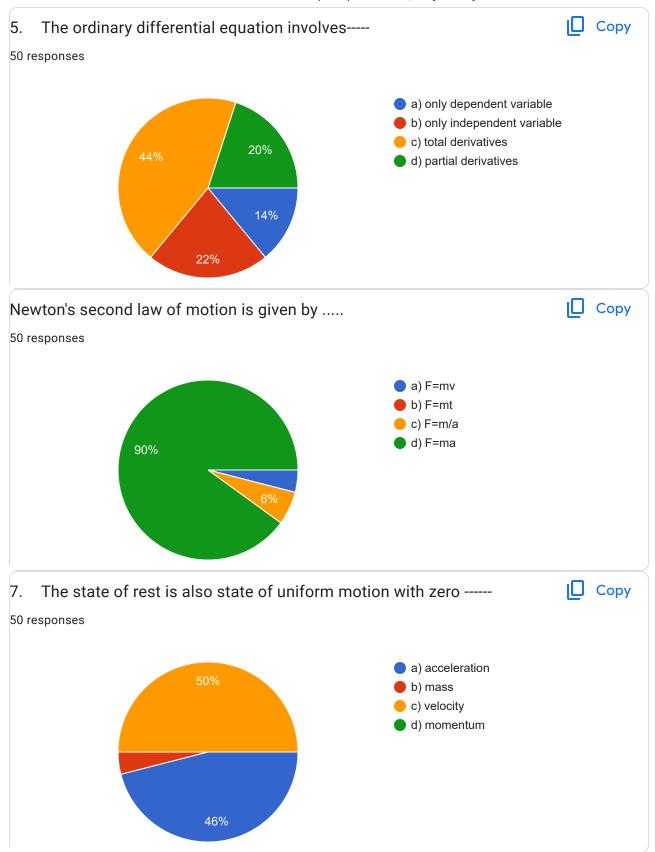




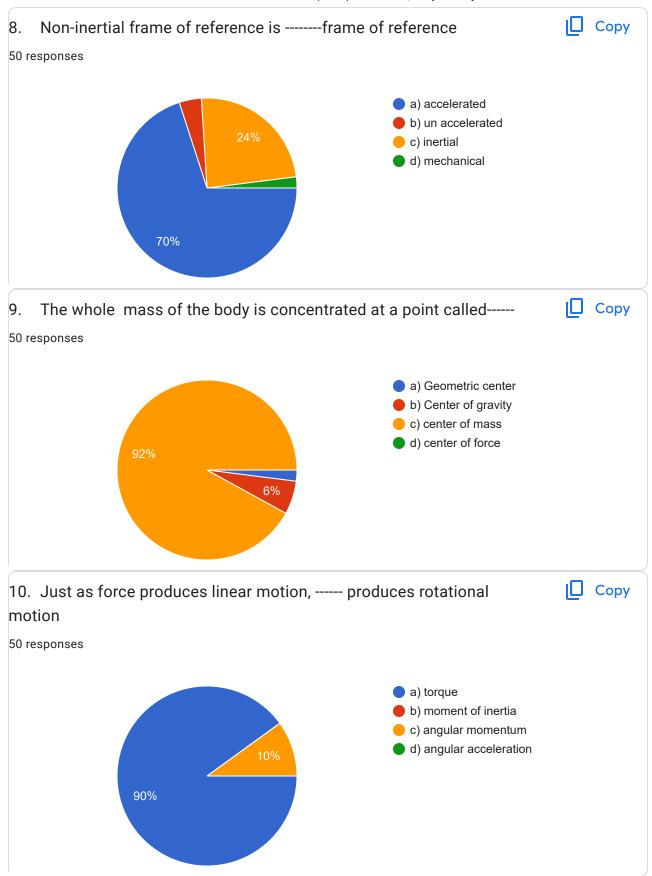




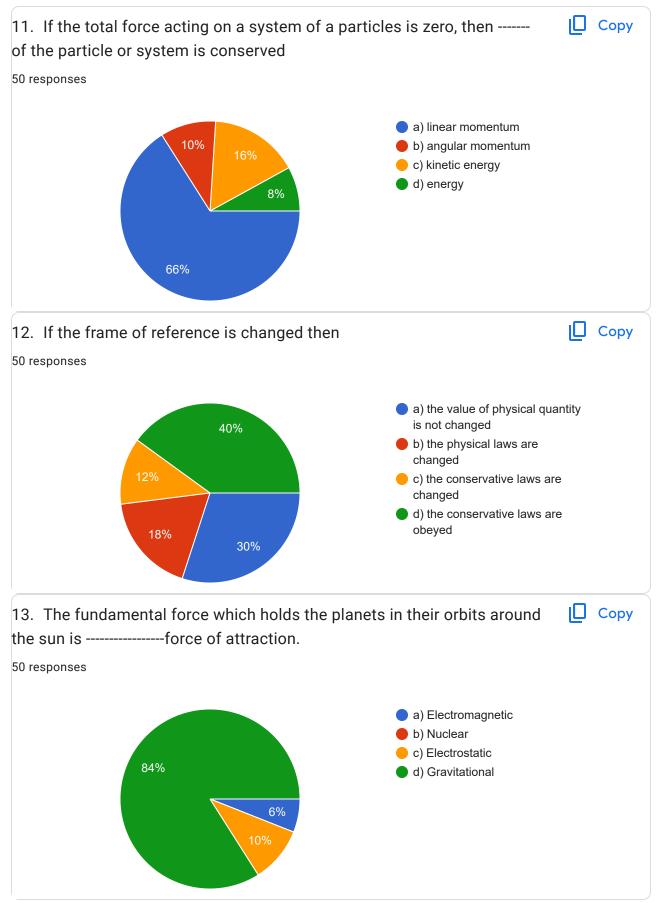




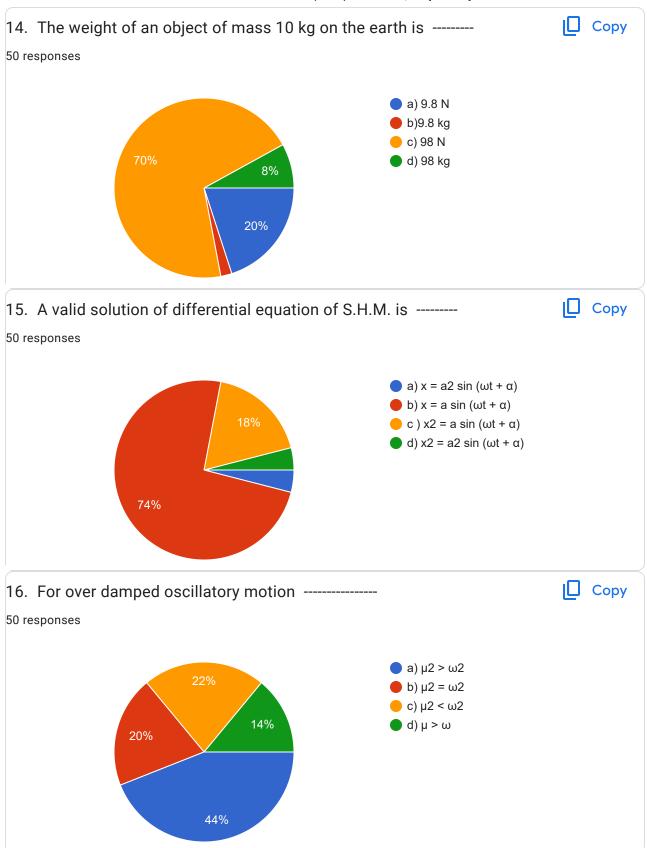




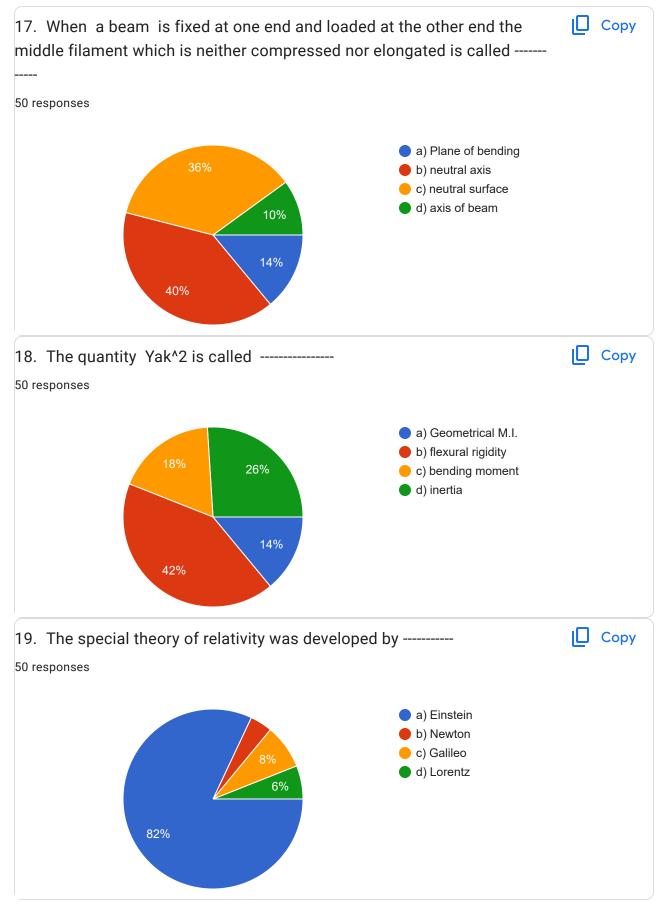




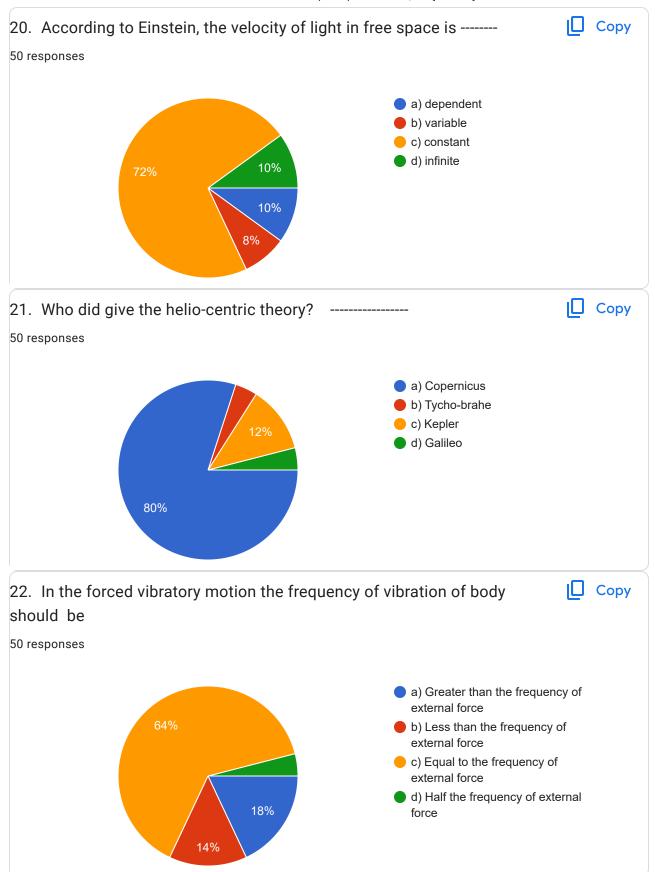




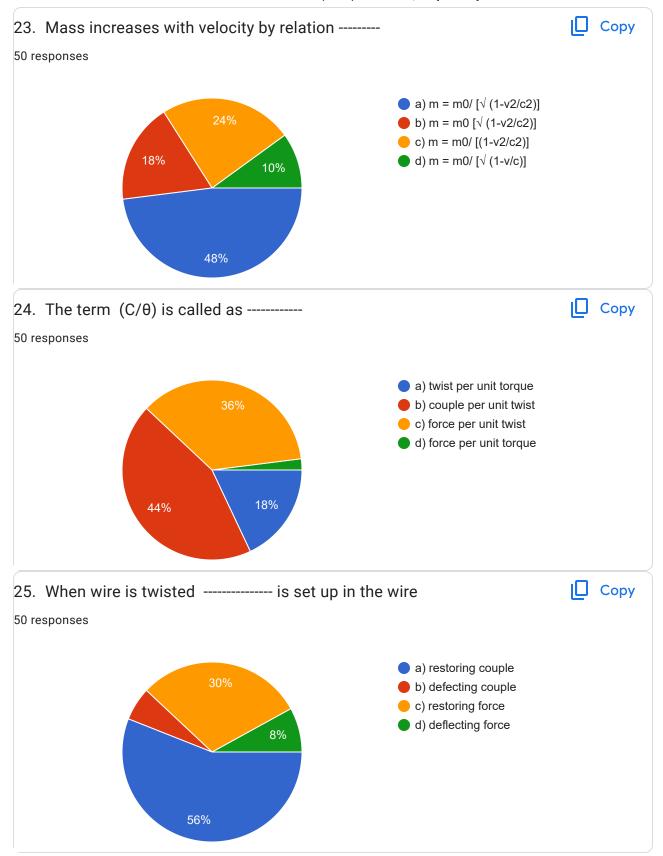












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