"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 Electricity, Magnetism and Electromagnetic Theory

Conducted by

Mr. S. I. Inamdar

on

Date:21/01/2021, Time: 12:00 to 01:00 pm

(2020 - 21)

B.Sc. I, SEM II Physics 2020-21

Paper II, ELECTRICITY ,MAGNETISM AND ELECTROMAGNETIC THEORY Date:21/01/2021, Time: 12:00 to 01:00 pm

Attempt any 20 Total marks : 40

| * Ind | dicates required question | |
|-------|---------------------------|--|
| 1. | Email * | |
| 2. | Name * | |
| 3. | PRN No. * | |
| 4. | SEAT No. * | |
| 5. | Email ID * | |
| | | |

| 6. | Faraday's law gives of induced emf. * | 2 points |
|----|--|----------|
| | Mark only one oval. | |
| | I. Magnitude | |
| | II. Direction | |
| | III. Both | |
| | IV. Unit | |
| | | |
| 7. | The Equation of continuity is accordance with the law of conservation of * | 2 points |
| | Mark only one oval. | |
| | . I. energy | |
| | II. momentum | |
| | III. charge | |
| | IV. mass | |
| | | |
| 8. | The gradient of the scalar function $\nabla \emptyset$ is* | 2 points |
| | Mark only one oval. | |
| | I. A scalar | |
| | II. a vector | |
| | III. used to represent scalar field | |
| | IV. used to represent vector field | |
| | | |

| 9. | If the vector is called solenoid vector then * | 2 points |
|-----|--|----------|
| | Mark only one oval. | |
| | I. gradφ=0 | |
| | II. div V=0 | |
| | III. curl V=0 | |
| | IV. Curl(Div V)=0 | |
| | | |
| 10. | The Mutual inductance is measured in * | 2 points |
| | Mark only one oval. | |
| | . I. ohm | |
| | II. farad | |
| | III. Henry | |
| | IV. volt | |
| | | |
| 11. | Gauss divergence theorem gives transformation of * | 2 points |
| | Mark only one oval. | |
| | I. surface integral into volume integral | |
| | II. Line integral into surface integral | |
| | III. Volume integral into surface integral | |
| | IV. surface integral into line integral | |
| | | |

| 12. | The divergence of a vector field $(\nabla.) V$ is * | 2 points |
|-----|---|----------|
| | Mark only one oval. | |
| | . I. a scalar | |
| | II. a vector | |
| | III. a constant | |
| | IV. tensor | |
| 10 | If a vector is called calcusted vector than | |
| 13. | If a vector is called solenoidal vector then * | 2 points |
| | Mark only one oval. | |
| | grad Ø =0 | |
| | div V=0 | |
| | curl V=0 | |
| | div .curl V=0 | |
| | | |
| 14. | Electric field is always directed from * | 2 points |
| | Mark only one oval. | |
| | I. positive to negative | |
| | II. negative to positive | |
| | III. no any direction | |
| | IV. none of these | |
| | | |

| 15. | The direction of electric dipole moment is given as * | 2 points |
|-----|---|----------|
| | Mark only one oval. | |
| | I. Electric field | |
| | II. magnetic field | |
| | III. both electrical and magnetic field | |
| | IV. none of these | |
| | | |
| 16. | In dielectric polarization, P □ gives* | 2 points |
| | Mark only one oval. | |
| | I. electric dipole moment | |
| | II. charge polarities | |
| | III. electric dipole moment per unit area | |
| | IV. electric dipole moment per unit volume | |
| | | |
| 17 | Flectric field is * | |
| 17. | Electric field is * | 2 points |
| | Mark only one oval. | |
| | directly proportional to q^2 | |
| | inversely proportional to q^2 | |
| | directly proportional to r^2 | |
| | inversely proportional to r^2 | |
| | | |

| 18. | Most sensitive galvanometer is * | 2 points |
|-----|---|------------|
| | Mark only one oval. | |
| | i. Elastic galvanometer | |
| | ii. Vibration galvanometer | |
| | iii. Dubble galvanometer | |
| | iv. Spot ballistic galvanometer | |
| | | |
| 19. | Damping of the Ballistic galvanometer is made small to * | 2 points |
| | Mark only one oval. | |
| | i. Get first deflection large | |
| | ii. Make the system oscillatory | |
| | iii. Make the system critically damped | |
| | iv. Get minimum overshoo | |
| | | |
| 20. | A device prevents the oscillation of the moving system and enables the latter to reach its final position quickly | * 2 points |
| | Mark only one oval. | |
| | I. Deflecting | |
| | II. Controlling | |
| | III. Damping | |
| | IV. Any of the above | |
| | | |

| 21. | Application of Norton's theorem to a circuit yields * | 2 points |
|-----|--|----------|
| | Mark only one oval. | |
| | I. Equivalent current source and impedance in series II. Equivalent current source and impedance in parallel III. Equivalent impedance IV. Equivalent current source | |
| 22. | For a voltage source * | 2 points |
| | Mark only one oval. | |
| | I. Terminal voltage is always lower than source e.m.f. II. Terminal voltage cannot be higher than source e.m.f. III. The source e.m.f. and terminal voltage are equal IV. None of these | |
| 23. | The unit of frequency is * | 2 points |
| | Mark only one oval. | |
| | I. Cycle | |
| | II. Cycle-second | |
| | III. Hertz/second | |
| | IV. Hertz | |
| | | |

| 24. | A parallel AC circuit in resonance will * | 2 points |
|-----|--|----------|
| | Mark only one oval. | |
| | I. Have current in each section equal to the line current | |
| | II. Have a high-voltage developed across each inductive and capacitive section | n |
| | III. Act like a resister of low value | |
| | IV. Have a high impedance | |
| | | |
| 25. | A circuit component that oppose the change in the circuit voltage * | 2 points |
| | Mark only one oval. | |
| | I. Resistance | |
| | II. Capacitance | |
| | III. Inductance | |
| | IV. All of the above | |
| | | |
| 26. | For which of the following is magnetic susceptibility negative? * | 2 points |
| | Mark only one oval. | |
| | I. Paramagnetic and Ferromagnetic materials | |
| | II. Paramagnetic Materials only | |
| | III. Ferromagnetic Materials only | |
| | IV. Diamagnetic Materials | |
| | | |

| 27. | Which of the following is the unit of magnetic flux density? * | 2 points |
|-----|---|----------|
| | Mark only one oval. | |
| | I. Weber/meter2 | |
| | II. Tesla | |
| | III. Newton/ampere-metre | |
| | IV. All of the above | |
| 28. | Which of the following statements is true about magnetic field intensity? * | 2 points |
| | Mark only one oval. | |
| | I. Magnetic field intensity is the number of lines of force crossing per unit vol | ume. |
| | II. Magnetic field intensity is the number of lines of force crossing per unit are | ea. |
| | III. Magnetic field intensity is the magnetic induction force acting on a unit magnetic pole. | |
| | IV. Magnetic field intensity is the magnetic moment per unit volume. | |
| | | |
| 29. | Magnetic field can be produced by* | 2 points |
| | Mark only one oval. | |
| | I. Conduction current | |
| | II. Displacement current | |
| | III. Both conduction and displacement current | |
| | IV. It is produced naturally | |
| | | |

| 30. | In electromagnetic waves the phase difference between electric field vector * 2 points and magnetic field vector is |
|-----|---|
| | Mark only one oval. |
| | . zero |
| | II. π/2 |
| | \prod III. π |
| | IV. π/3 |
| | |
| | |
| | |

This content is neither created nor endorsed by Google.

Google Forms

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

298 responses

Publish analytics



| -io | |
|------------------------------|---|
| Name | |
| 298 responses | |
| Onione Manageta Batan | |
| Gajare Namrata Ratan | |
| Abhishek Balasaheb Bansode | |
| Mohsin Husen Mulla | |
| Sohan Gund | |
| | |
| Sarthak | |
| Sagar Dipak Mohite | |
| Sachin | |
| Vinayak Nandkumar Gosavi | |
| | |
| Dhanashri Popat Chavan | |
| Rifa Farukh Gadkari | |
| Prathmesh | |
| Swapnali dinkar nadale | |
| Kumbhar Dhanashree Dattatray | |
| Rumbhai bhanashiee battatray | |
| Shifa Ashapak Pathan | |
| Pranav Tanaji Shinde | |
| Muskan Maurya | |
| Sakshi Mohan Kamate | |
| | |
| Vidira Rajaram Vibhute | |
| Shankar Gajanan Jadhav | |
| | A |

Prachi Prashant Maskar

Shruti Jaysing Thorat Abhishek sanjay mali Prathamesh Abaji Dongare Nupur Sujit kulkarni Pratiksha Rajaram Chougale Akash sangat Kedar krushnat powar Jafar Nisar Mujawar Atharva Jasud Aditya Ganpat Chilgonde Samruddhi mali Omkar Sanjay Sutar Vinayak Devekar Suyash Sanjay Dongare Payal Sampat jambhale Sanket Santosh patil Nishikant nivruti khatangle Bhagyashri savanta shinde Prashant Pandurang Shinde Vinayak rajaram teli Samrudhi suresh Borage Dnyaneshwari Patil

Patil Prajakta keshav psbote20@gmail.com Isha Amar Shintre Aishwarya Dhanaji Yadav Vrushali Umesh Ropalkar siddhesh vishnu jadhav Shweta Bandu Patil. Aditya Dattatray Kamble Pratiksha namdev chougale Omkar Vijay Patil Siddhi mohan pandharpatte Kamble Rohit baban Nikita Ashok Patil Anurag Bharat Jadhav Patil Anirudha Vitthal Patil Sandeep Jaysing Komal Prakash Chavan Prathamesh Baburao Kharase Harshavardhan kopardekar Rajnandini Ganesh Gaikwad Chavan Sakshi suwarnsing



huzefa ajijahmad shaikh

Vaishnavi krushnat Adsul Prathmesh Suresh Agalave Pruthviraj Powar Patil Mithila Santosh Adesh Ajit Alman Akanksha Anil Sardesai Devendra somnath chavan Swapnil Anil khamkar Shruti Vinay Gutte Sakshi Sandeep mirajkar Ruchita Bajirao Chavan Dhiraj Dattatray Jadhav Prajakta sunil bidre Siddika Firojkhan Ambardekar Tushar Popatrao Shinde Shivani Namdev Tashildar Parth jadhav Saee Sandeep Jadhav Vivek Janardan Shinde Sachin Uttam Patil Patil Divya Umeshchandra

Manjusha rangrao awale

| Aryan Karekar |
|----------------------------------|
| Simantini Patil |
| Mrinal Umesh Pise |
| Adityashivajipatakure |
| Mujawar Rafa Altaf |
| Shweta rajput |
| Miss.ummeaiman Umarfaruk Mujawar |
| Ajay Mohan Suryavanshi |
| Shubham Durugale |
| Kamble Rutuja Raghunath |
| Rohini Arjun Mane |
| Varsha Rajesh Kumawat |
| Shubham jayram rathod |
| Ankit Vinayak Kadwale |

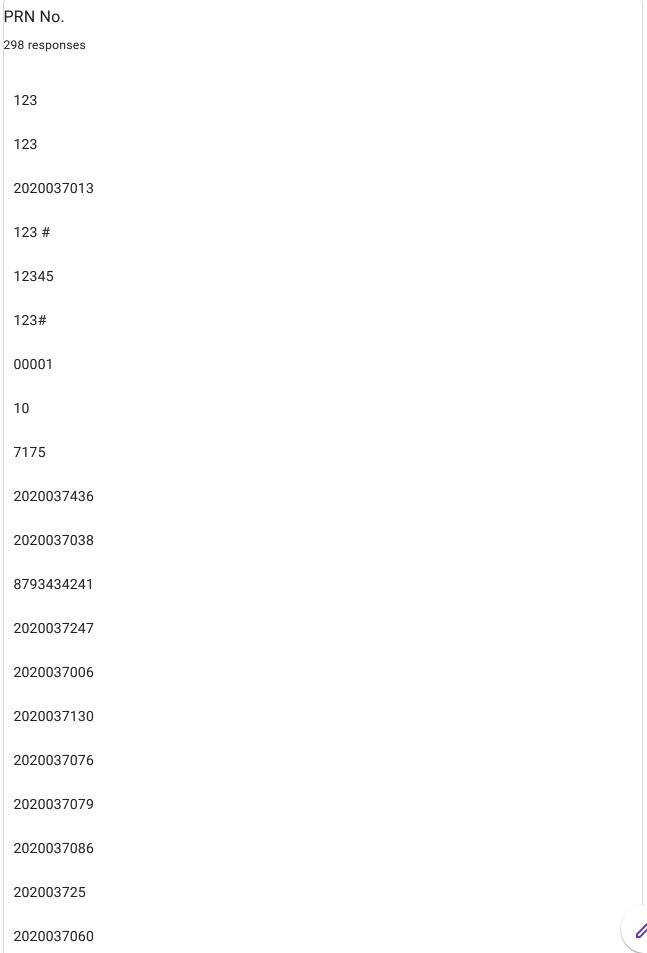


196 more responses are hidden



| 11/4/23, 12:01 PM | | Vivekanand College, Kolhapur. (Autonomous) Dept. of Physics Internal evaluation examination Feb 2020-2 |
|-------------------|--------------------|--|
| | 7275 | |
| | 7134 | |
| | 7455 | |
| | 7151 | |
| | 7402 | |
| | 7161 | |
| | 7327 | |
| | 7113 | |
| | 7245 | |
| | 7037 | |
| | 7276 | |
| | 7025 | |
| | 7024 | |
| | 7466 | |
| | 187 more responses | are hidden |

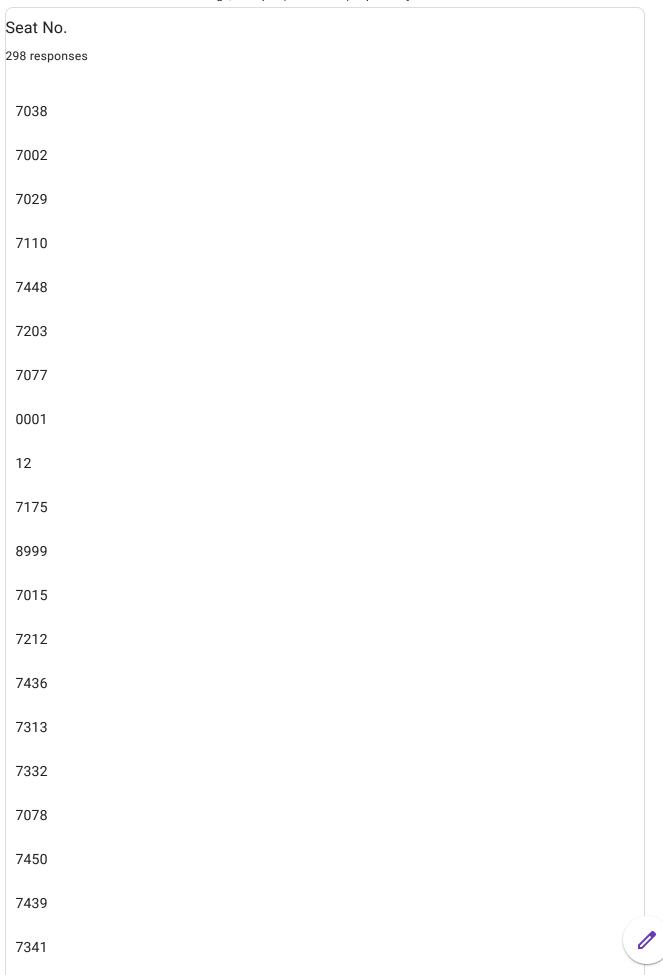


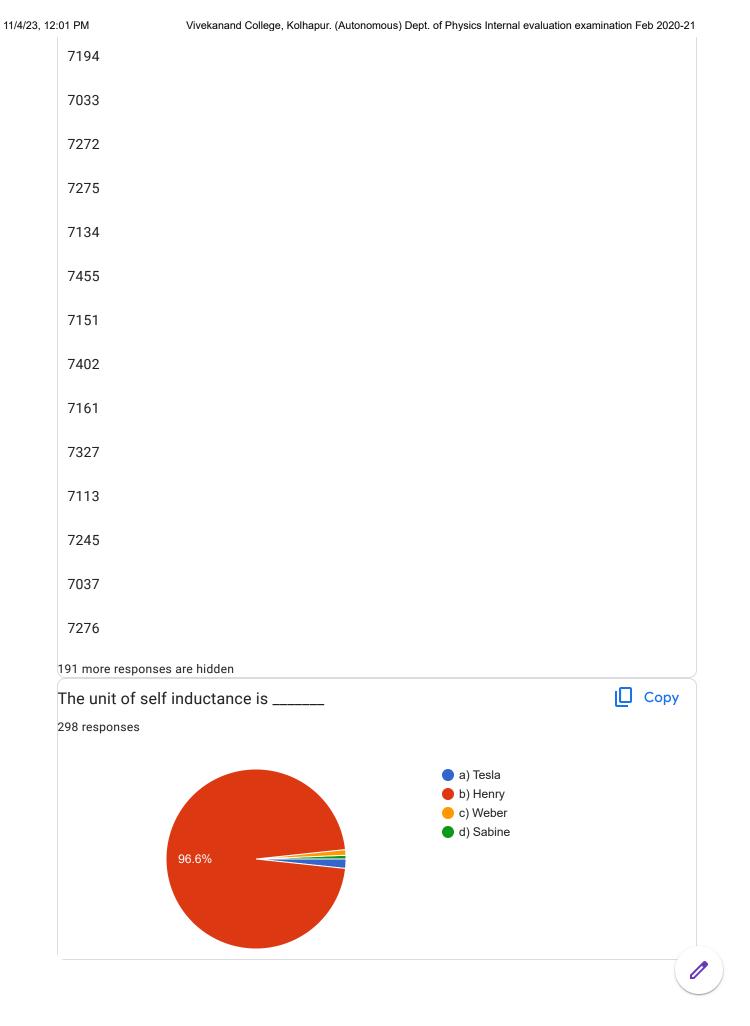


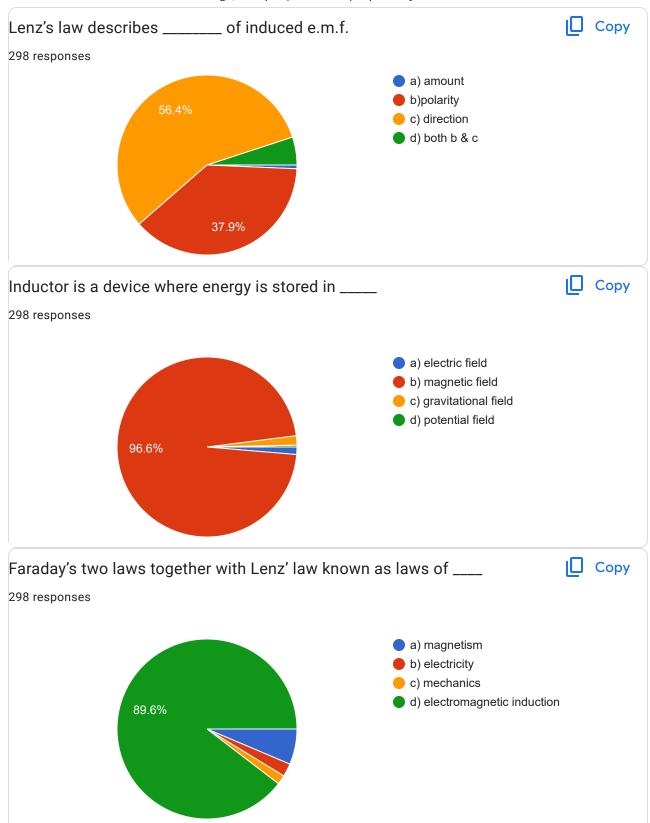


| 11/4/23, 12:01 PM | Vivekanand College, Kolhapur. (Autonomous) Dept. of Physics Internal evaluation examination Feb 2020- |
|-------------------|---|
| 2020037229 | |
| 2020037334 | |
| 2020037150 | |
| 2020037337 | |
| 25488639 | |
| 2020037077 | |
| 2020037106 | |
| 7049 | |
| 7004 | |
| 2020037117 | |
| - | |
| 202037089 | |
| 7027 | |

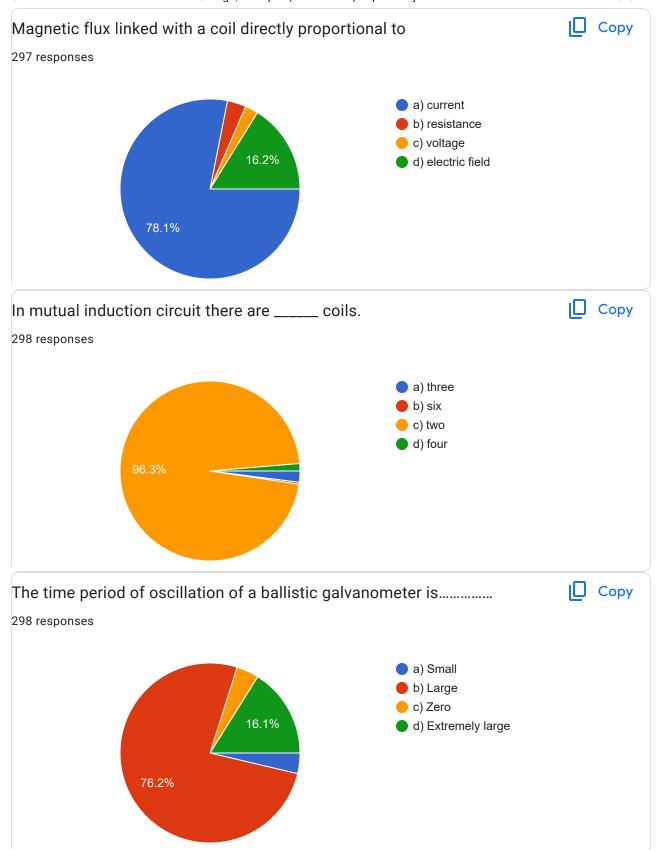




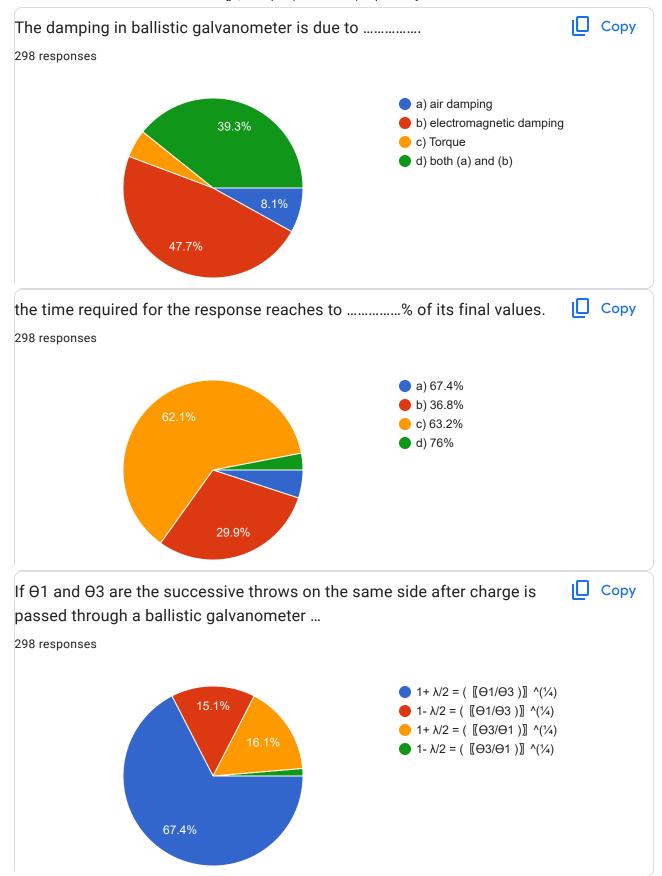




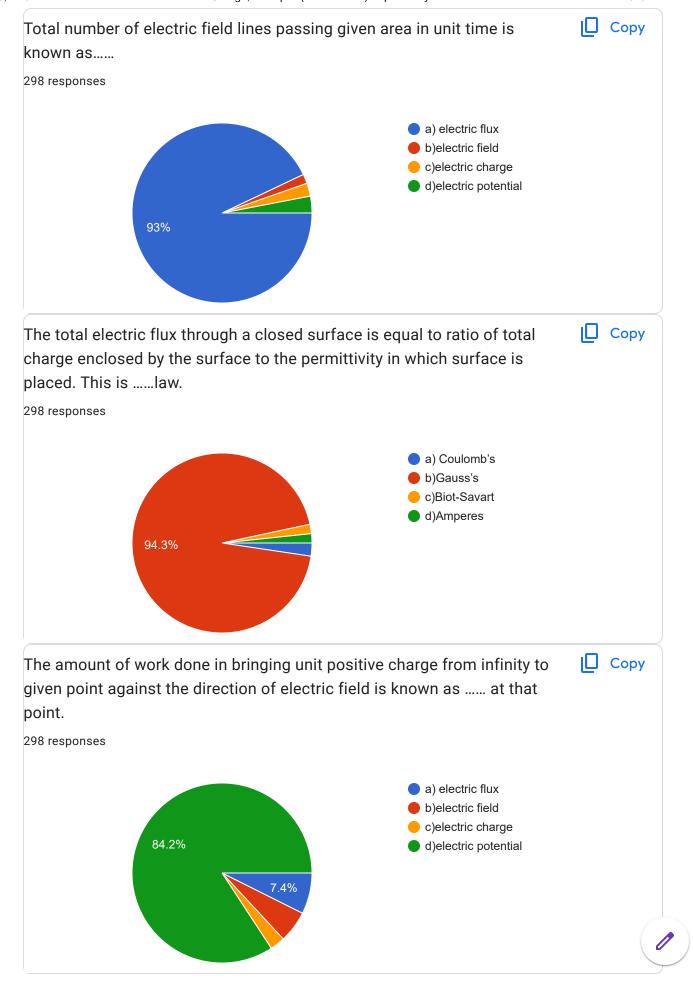


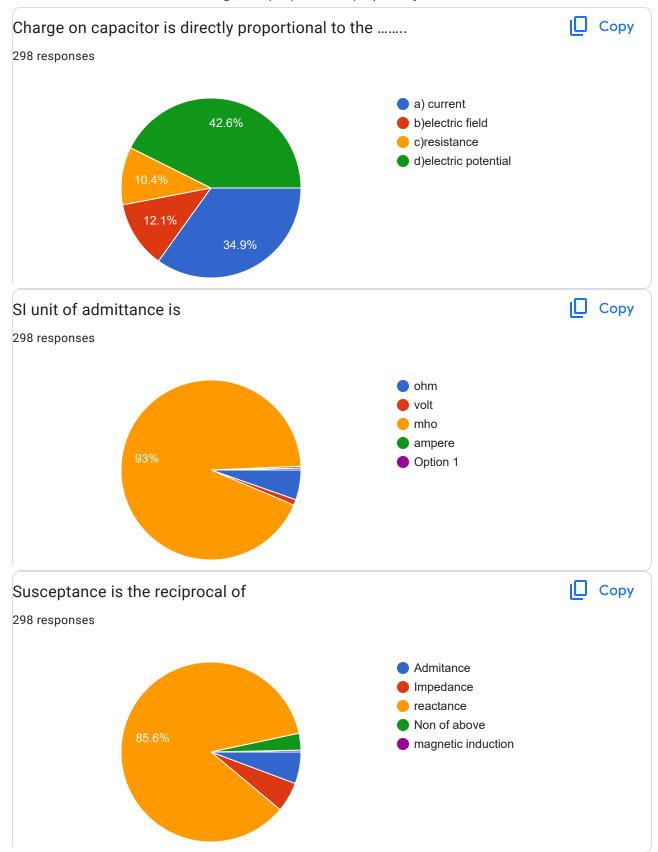




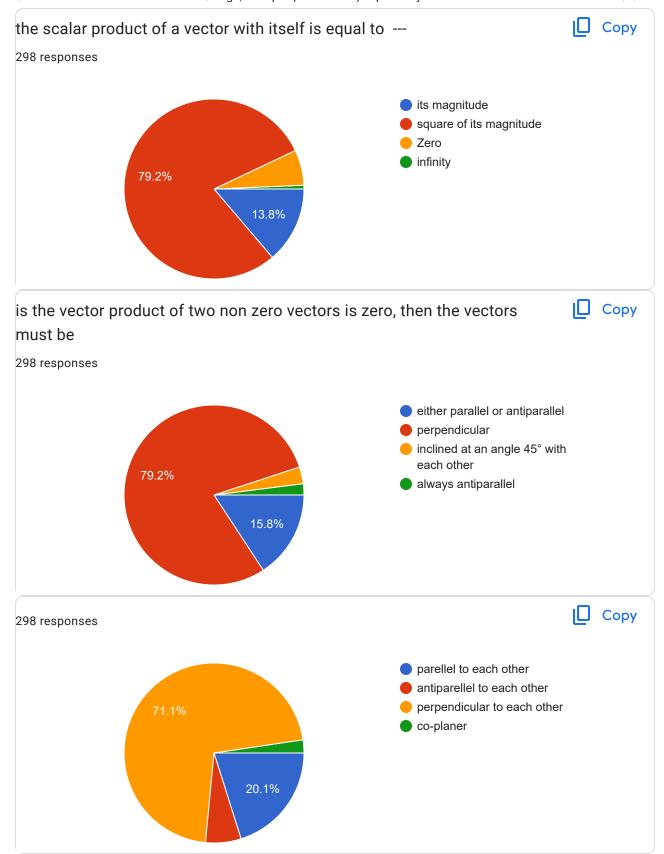




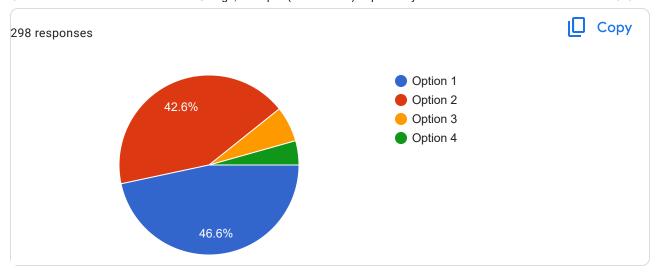












This content is neither created nor endorsed by Google. Report Abuse - Terms of Service - Privacy Policy

Google Forms



