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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

M.Sc. II: Tutorial Examination of Seminar +Tutorials on practical Course-II

Conducted by

Dr. M. M. Karanjkar

on

Date: 01/07/2022, Time: 12.00 noon to 1.30 pm

(2021 - 22)

M.Sc. II Sem IV Tutorial Exam 2022

Vivekanand College, Kolhapur (Autonomous)

Department of Physics

M. Sc. II

Paper code - CPPR-1123D

Name of the exam - Tutorial exam Date – 01/07/2022

Time – 12.00 noon to 1.30 pm

Instructions:
 All questions are compulsory.
 Each question carry one mark.

* Indicates required question

1. Email *

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3. Roll No *

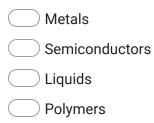
4. Name of Student *

- 5. PRN no
- 6. A solar cell is a

Mark only one oval.

- P type semiconductor
- n type semiconductor
- Intrinsic Semiconductor
- P-N junction
- 7. X-ray diffractions are not used to identify the physical properties of which of the following?

Mark only one oval.



8. The correct expression for Bragg's law is $n\lambda =$ _____

- dsinθ
 2dsinθ
 dcosθ
- ____ 2dcosθ

9. Minimum interplanar spacing required for Bragg's diffraction is...... to wavelength of X-ray.

Mark only one oval.

equal

- 2 times
- ____ 4 times
- ____ 1/2 times

10. Thermocouple works on the principle of

Mark only one oval.

- Seebeck Effect
- Photoelectric effect
- Raman Scattering
- 🔵 X ray Scattering
- 11. An e.m.f produced in the thermocouple does not depend on

- _____ the length of metal wires
- Temperature of hot junction
- Temperature of cold junction
- Metals used

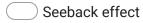
12. Efficiency of Aluminium-Chromel thermocouple is.....

Mark only one oval.

- 1 mV = 25 degree celsius
- \bigcirc 1 mV = 50 degree celsius
- 25 mV = 1 degree celsius
- 50 mV = 1 degree celsius
- 13. The rate of change of the thermoelectromotive force of a thermocouple with temperature is called as ...

Mark only one oval.

- Thermoelectric power
- Thermocouple voltage
- Thermal force
- Seeback effect
- 14. When a current flows through an unequal heated conductor, heat is evolved or absorbed along the length of the conductor is known as



- Thomson effect
- Peltier effect
- Neel Effect

15. A phenomenon in which a temperature difference between two dissimilar electrical conductors or semiconductors produces a voltage difference is called as

Mark only one oval.

Seeback effect

Peltier effect

- Thompson effect
- Neel effect
- 16. An effect whereby heat is given out or absorbed when an electric current passes across a junction between two materials

Mark only one oval.

- Seeback effect
- Peltier effect
- Thompson effect
- Neel effect
- 17. Raman effect is scattering of _____

Mark only one oval.

Atoms

Phonons

- Photons
- Electrons

18. The elastic scattering of photons is called as _____

Mark only one oval.

- Atmospheric scattering
- Rayleigh Scattering
- Conserved Scattering
- Raman Scattering
- 19. Which of the following cannot be conserved during Raman scattering?

Mark only one oval.

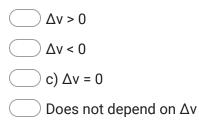
- Total Energy
- Momentum
- Kinetic Energy
- Electronic Energy

20. In Raman spectroscopy, the radiation lies in the _____

- Microwave Region
- Visible Region
- UV Region
- X-ray Region

21. The Raman spectrum is said to consist of Strokes lines when _____

Mark only one oval.



22. Intensity of Raman lines are _____

Mark only one oval.

- 📃 Weak
- Strong
- Curved
- Blurry
- 23. LDR's are also called

- Photo voltaic cell
- Photo resistive cell
- Photo emissive cell
- All of the mentioned

24. The vibrations of molecule, without a center of symmetry are active in which of the following region?

Mark only one oval.

- Infrared but inactive in Raman
- Raman but inactive in IR
- Raman and IR
- Inactive in both Raman and IR
- 25. Which of the following lines are most intense?

Mark only one oval.

- Stokes lines
- Rayleigh-scattered lines
- Anti-strokes lines
- All have same intensity
- 26. For a particular vibrational mode to appear in the Raman spectrum, what must change?



- Intensity of radiation
- Molecule's shape
- Molecule's polarizability

27. Quantum dot solar cells are based on....

Mark only one oval.

- Gratzel cell
- Solar cell
- Voltaic cell
- Galvanic cell
- 28. ... is a direct band gap material.

Mark only one oval.

- Copper Indium Gallium Selenide
- Copper Selenide
- Copper Gallium Telluride
- Copper Indium Gallium Diselenide
- 29. What is the difference between Photodiode and Solar cell?

- No External Bias in Photodiode
- No External Bias in Solar cell
- Larger surface area in photodiode
- No difference

30. Which of the following statements are true with regard to resistivity?

Mark only one oval.

- Resistance depends on the temperature
- Resistance does not depend on the temperature
- Resistivity depend on the length
- Resistivity depend on area of cross section

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Email

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snehalmane1467@gmail.com

pranavghosalkar1@gmail.com

prajyot6422@gmail.com

swapnil7618@gmail.com

kambleprasad9246@gmail.com

Sanjayguidance0108@gmail.com

priyaburud143@gmail.com

shettirutuja64@gmail.com

adakegirish@gmail.com

ssadiya051@gmail.com

Sawantmanisha1999@gmail.com

yogitazirange1999@gmail.com

pratikshachougale41@gmail.com

priyankasp306@gmail.com

gourijadhav07@gmail.com

bhosalekomal655@gmail.com

shwetashweta77884@gmail.com

pednekarb0@gmail.com

manasijagadale85@gmail.com

sujata26041999@gmail.com

nehathorat368@gmail.com

devarishi92@gmail.com

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Name of Student

22 responses

Snehal Narayan Mane

Pranav shankar Ghosalkar

Prajyot Sunilkumar Pradnyasagar

Swapnil Sakharam Shinde

PRASAD VILAS KAMBLE

Sunil Ratnakar Chougale

Priyarani Ravindra Burud

Shetti Rutuja Subhash

Girish Suresh Adake

Sadiya Mustafa Shaikh

Manisha Sawant

Yogita Zirange

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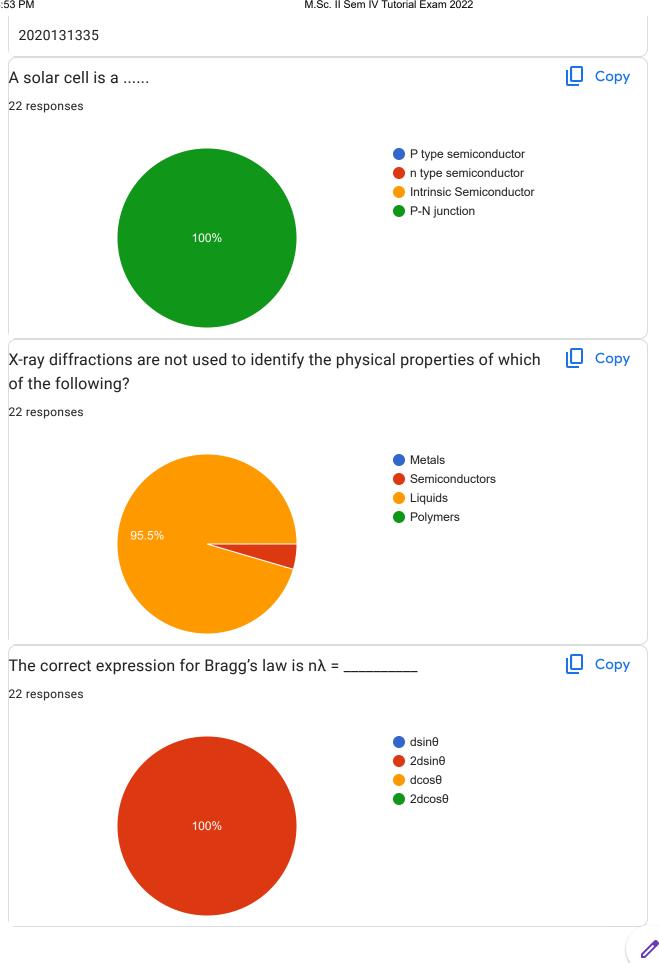
Manasi Khanderao Jagadale

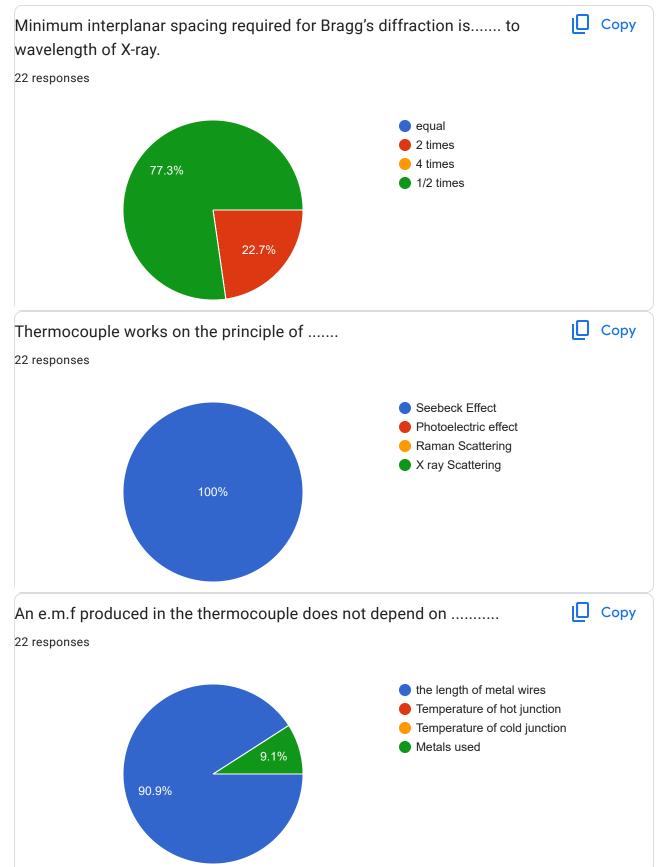
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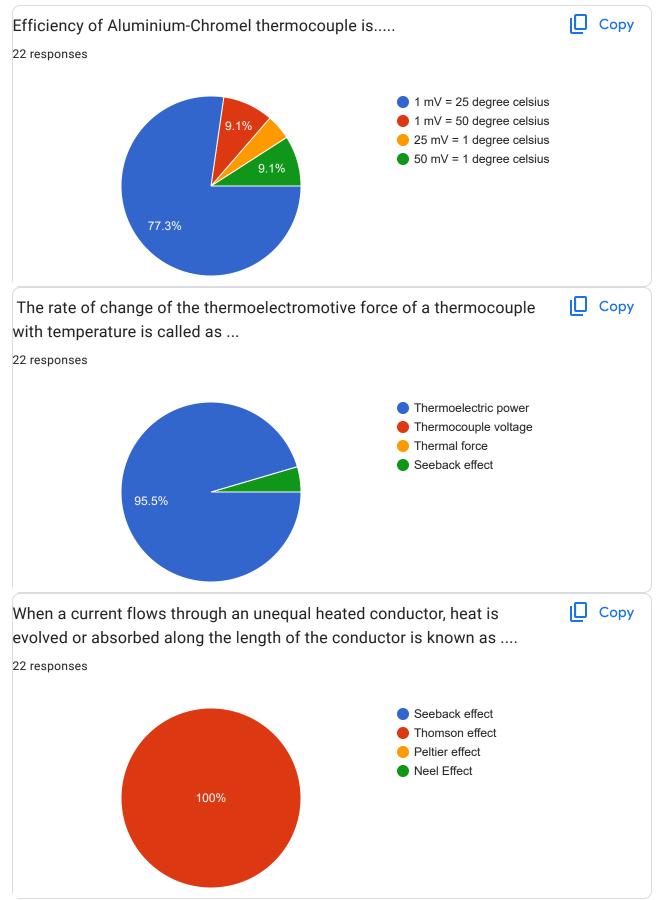
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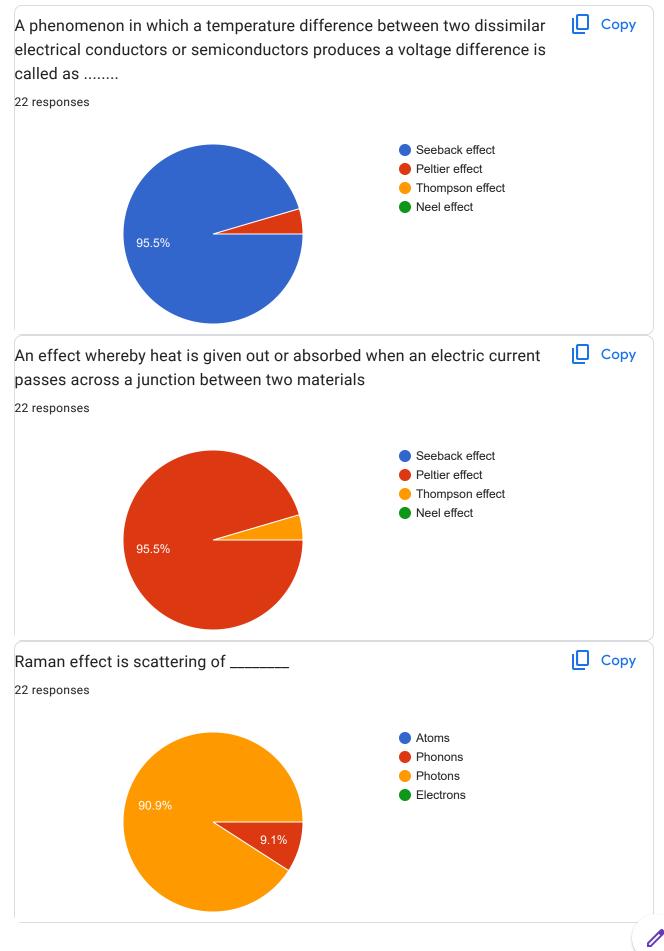
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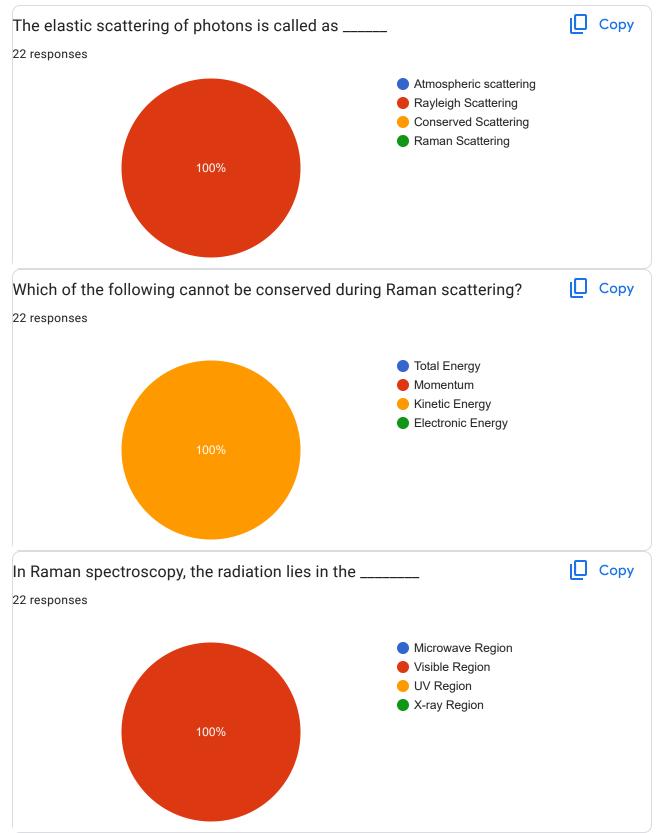
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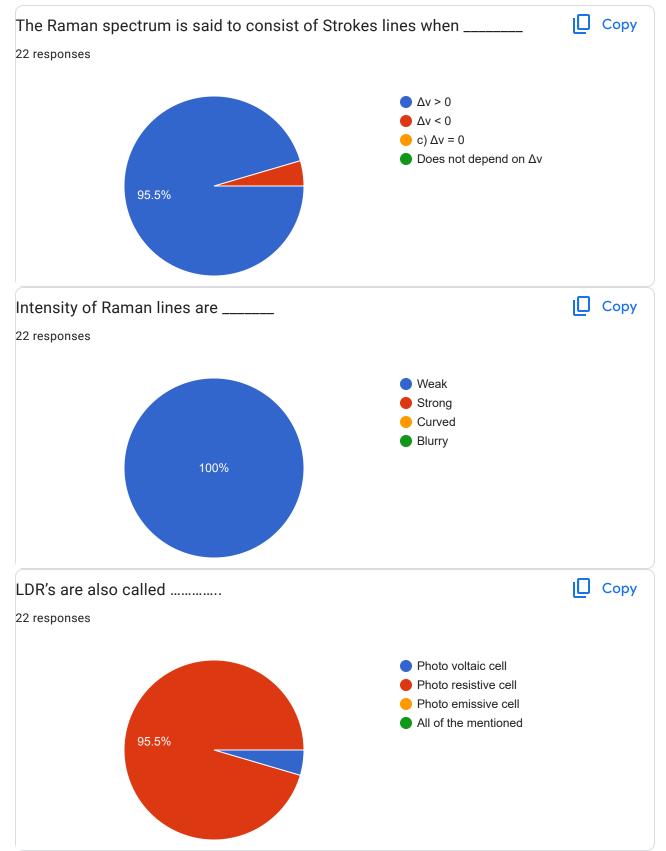


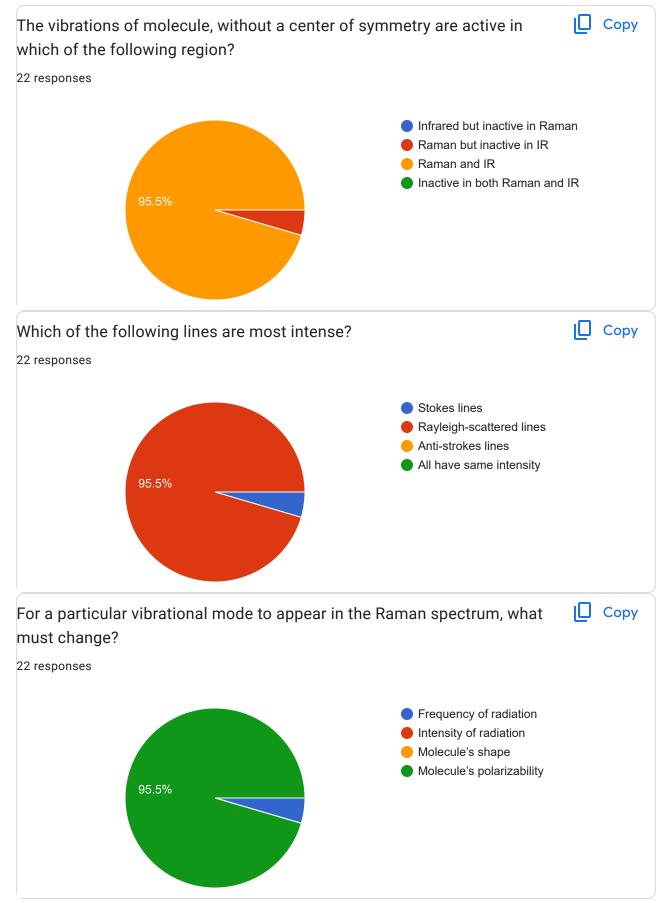


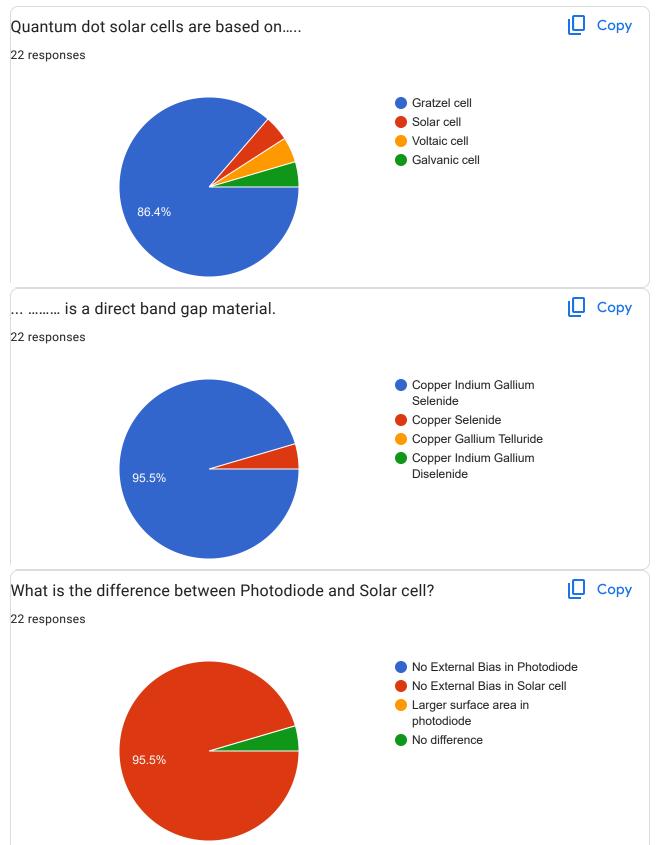


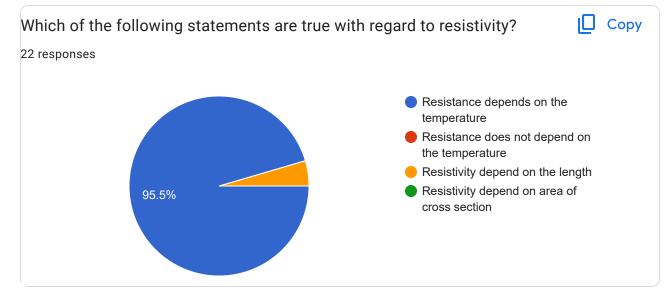












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