



GOVERNMENT DEGREE COLLEGE (MEN)

ACCREDITED BY NAAC WITH B++ (CGPA 2.90)

Srikakulam - 532001, Andhra Pradesh, India

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Department of Physics

Brainstorming Session

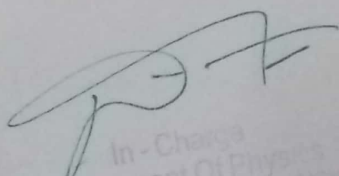
Date and Time	08.12.2023
Class	III B.Sc (MPCS)
No.of students participated	27
Name of the Activity	Brainstorming Session
Title	When you sit at a campfire,how do you get heat?
Objective	The objective of a brainstorming session focused on the topic of "When you sit at a campfire,how do you get heat?" could be to explore, discuss, and generate ideas and hypotheses related to this question. It promotes Critical Thinking,Engage Curiosity,Highlight Scientific Method,and Promote Further Study.
Teacher Activity in this session	1. Asking Questions during this session like below a. In how many ways does heat transfer? b. What is Conduction of heat ,explain its characteristics? c. What is the convection of heat,explain its characteristics? d. What is the radiation of heat,explain its characteristics? e. Is air a thermal conductor or insulator? f. Conclude the topic in brief? 2. Encourage students to share their thoughts and ideas without filtering them.

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	3. Encourage Divergent Thinking Prompt students to think outside the box and consider unconventional solutions or perspectives. Encourage them to push the boundaries of their creativity. 4. Emphasise Learning: Remind participants that the goal of the session is not necessarily to arrive at a definitive answer but to promote curiosity, critical thinking, and a deeper understanding of scientific principles.
Student Activity in this Session	1. Group Sharing : Students in the groups can discuss and refine their hypotheses based on the input from their peers. 2. Debate and Discussion: Organise a debate where students can argue for or against the idea that air forms a shadow. Assign some students to argue in favour of the hypothesis and others against it. This encourages critical thinking and helps students consider different perspectives. 3. Record Ideas: As ideas are generated, write them down on a whitepaper . Ensure that all ideas are captured without judgement or evaluation at this stage.
Documental evidences	https://drive.google.com/file/d/1MQhI0rBWN7iyRH-wE6io_SA_W0J24QLA_/view?usp=drive_link
Name of the Lecturers who planned & conducted the activity	Sri.M.V.Satyanarayana Sri R.Ravi kumar Sri B.Mohana Rao Dr.GVS Jayapala Rao


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Department Of Physics
Government Degree College (MCU)
SRIKAKULAM

Date : 8 - 12 - 2023

Class : III MPES

Day : Friday.

Semester : IV

Brain Storming Session

: 12:40 PM to
1:20 PM

TOPIC : When you sit at Camp fire, how you get heat?

Ans . Heat is felt by body when we sit at camp fire due to "thermal radiation".

→ In how many ways you transfer heat?

Ans Heat is transferred in three ways.

→ Conduction

→ Convection

→ Radiation

→ What is conduction of heat ; explain it?

Ans Transfer of ^(heat) energy with direct contact is known for conduction.

Since it occurs through the collision of atoms of (or) molecules which are neighbored with each other.

→ Generally these occur mostly in liquid solids rather than gases.

→ What is convection of heat ; explain it?

Ans Transfer of heat by a molecular motion of fluid [liquid (or) gas]. It is occurred with direct contact of fluid.

→ What is radiation of heat; explain it?

Ans The process where transfer of heat occurs in the form of waves; that may be absorbed, reflected or transmitted.

In general this process of transfer heat helps in heating the surface of the earth.

→ Is air a thermal conductor or Insulator.

Ans Air is an Insulator.

As it is a gaseous substance. Due to the distance between the molecules it prevents transfer of heat. So we can define it as a poor conductor of heat.

<u>Name</u>	<u>Roll NO.</u>	<u>Group</u>	<u>Signature</u>
K. Mohan	2122001050019	MPCS	K. Mohan
P. Nileep	2122001050035	MPCS	P. Nileep
K. Maheswari	2122001050017	MPCS	K. Maheswari
Ch. Sri Rajya Lakshmi	2122001050008	MPCS	Ch. Sri Rajya Lakshmi
Paidi Devika	2122001050031	MPCS	Devika Paidi

CONCLUSION

Date : 8-12-2023

Group : III MPCC

Day : Friday.

Semester: V.

Time: 12:40 PM to 1:20 PM.

→ when we sit near a camp fire, why heat is transferred only through radiation. why not conduction and convection.

For Radiation we require no medium so we get heat through it.

For Conduction we require medium for heat transfer.

Here we have Air as medium, but air is an insulator so no transfer through conduction.

For Convection we require fluid or gas, but here when the camp fire sets up.

The air above it gets heated up, which gives rise in density.

So that the ~~air~~ above it hotter not the neighbouring one.

Hence we can't feel it by standing beside.

These are the reasons for it.

CONCLUSION.

This Brainstorming session helped in boosting up the memory.

It includes involvement and interaction with co-team members.

Interested in joining for the further session.
Appreciation for the faculty [Sir] for conducting this sort of activities.

Name	Roll NO	Group
P. Devika	2122001050031	II BSEM PCS
Ch. Sri Rajya Lakshmi	2122001050008	II BSC MPCs
K. Maheshwari	2122001050014	II BSC MPCs
P. Dileep	2122001050035	II BSC MPCs
K. Mohan	2122001050019	II BSC MPCs

Time: 12:40 pm → 1:20 pm.

Class: III MPCs

Date: 8-12-2023 (Friday)

Semester: V

Brain Storming Session

Topic:- When you sit at campfire, How you get heat?

1. In how many you transfer heat?
2. What is conduction of heat and explain?
3. What is Convection of heat and explain?
4. What is radiation of heat and explain?

→ When sit by campfire, most of the heat are receiving from the fire does not come from hot air. It comes from thermal radiation. Generally there are three ways that heat can travel.

1. 3 Types transfer heat.

- * Conduction
- * Convection
- * Radiation.

2. Heat flows from hotter body colder body is called Conduction. It is also called thermal equilibrium.

3. Convection is defined by transfer of heat between two bodies by movement of gas or fluid.

4. Transfer of heat energy from a hot body to cold body, directly, without heating the medium. between two bodies.

5. Does air is thermal conductor or Insulator?

Air is a good insulator, Because air is a mixer of gases. It resists heat transfer to some degree.

6. Why the heat does not transfer conductor?

~~the heat~~

Air is a Poor thermal Conductor, you would not receive much heat from the Campfire via Conduction unless you stick your hand in the fire.

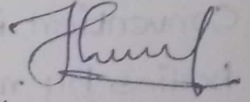
Conclusion:-

→ We know about different types of heat transformations.

→ We know about Conduction
Convection
Radiation.

→ We newly know about air is insulator.

Signatures:-

<u>Names</u>	<u>H.t NO</u>	<u>Groups</u>	<u>Signatures</u>
S. Pavan Kumar	2122001050037	I MPCs	S. Pavan Kumar.
Jt purushottam	2122001050015	II MPCs	
K. Lakshmi parasanna	2122001050021	III MPCs	K. parasanna.

Date :- 8/12/2023

Day :- Friday

Class :- IIIrd MPC8

Semester :- V

Brain storming Session

Topic :- When you sit at campfire, how you get heat?

A) Radiation

1) In how many ways you transfer heat?

A) They are three ways 1) Conduction

2) Radiation

3) Convection

2) What is Conduction of heat and explain?

A) Conduction means they pass energy from one particle to another particle being in direct contact with each other. Ex :- Ironing of clothes

3) What is Convection of heat and explain?

A) The movement of fluid molecules from higher temperature region to lower temperature.

Ex :- Boiling of water.

4) What is Radiation of heat and explain?

A) The heating of the earth by the sun is an example of transfer of energy by Radiation.

5) Does Air is a thermal conductor (or) insulator?

A) Air is a Good insulator, because it is a gaseous substance, therefore its spread-out molecular configuration resist heat transfer to some degree.

Conclusion :-

- 1) This session makes fun with friends.
- 2) This session can accomplish the perspective (or) way of thinking of one person to other persons.
- 3) It will help to testing our brain.
- 4) It is very joyful to search in Google and find answers.

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P. Neeraja	2122001050036
J. Sravani	2122001050016
N. Mamatha	2122001050026
B. Haritha	2122001050006

Manasa
P. Neeraja
J. Sravani
N. Mamatha
B. Haritha

08.12.2023

class: III MPC

Friday

Semester: V

Brainstorming session Time: 12:40 pm to 1:20 pm

Topic: When you sit at campfire, how you get heat?

Q. Ans:- Radiation and ~~Air acts as thermal~~ conductor.

1. In how many you transfer heat?

Ans: Three processes :- 1) conduction 2) convection 3) Radiation

2. What is conduction of heat and explain?

Ans: The transfer of energy through physical contact between matters. ex:- ice cube when we hold in our hand.

3. What is convection of heat and explain?

Ans: The transfer of heat through fluids causing by molecular motion. ex:- Boiling of water.

4. What is radiation of heat and explain?

Ans: Energy that transmit in the form of rays or waves of particles. ex:- sunlight.

5. Does Air is a thermal conductor or insulator?

Ans: ~~thermal conductor~~, insulator

6.

Conclusion:-

* Due to this session we know the facts about transfer of heat.

* It is helpful to know the conduction, convection, radiation

* We know the use of Air in transfer of heat etc.

<u>Name</u>	<u>H.T. No</u>	<u>Group</u>	<u>Signature</u>
B. Sirisha	2122001050003	MPCS	21 B. Sirisha
S. Dhilleswari	2122001050038	MPCS	S. Dhilleswari
N. Sandhyarani	2122001050028	mPCS	N. Sandhyarani
K. Ganesh	2122001050020	MPCS	K. Ganesh
G. Sudeep Kumar	2122001050012	MPCS	G. Sudeep ;
N. Neelachalam	2122001050027	MPCS	<u>N. Neela</u>

Time: 12:40 to 1:20

08/12/2023

Friday

class: III MPC5

semester: V

Brain storming session

Topic:

When you sit at campfire, how you get heat?

A) due to radiation we get heat.

because we are not contact with campfire. we sit far from campfire. transfer heat from highly temperature campfire to low temperature of our bodies.

Q) ~~what is~~

In how many you transfer heat?

A) 3 ways, conduction, convection, radiation.

Q) what is conduction of heat and explain.

A) transfer of heat from high temperature to low temperature to get equilibrium state when two bodies are contact with each other.

Q) what is convection of heat & explain.

A) transfer of heat b/w two bodies by currents of moving fluid to get equilibrium.

Q) what is radiation of heat & explain.

A) transfer of heat from high temperature bodies to low temperature bodies.

when bodies are not ~~thermo~~ physically
contact with each other.

- 5) Is air is thermal conductor or insulator
A) Conductor.

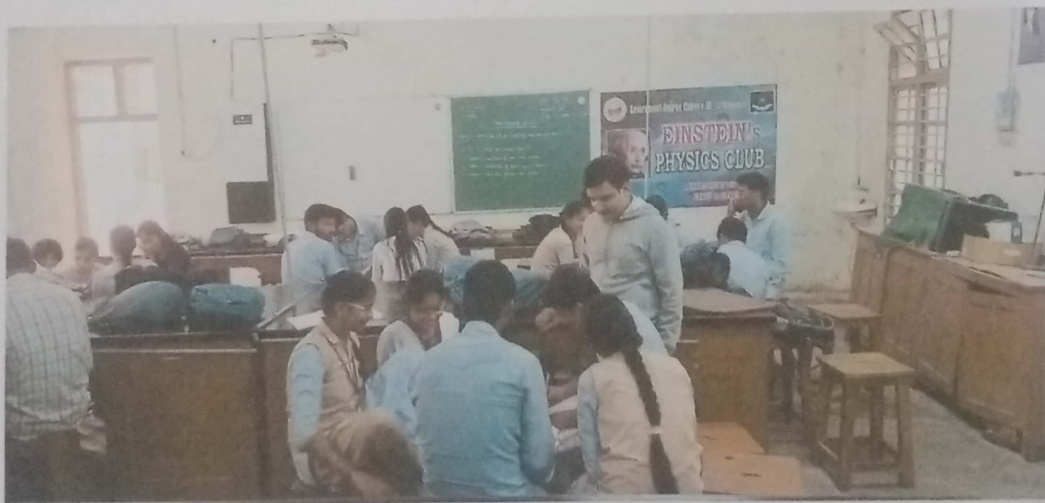
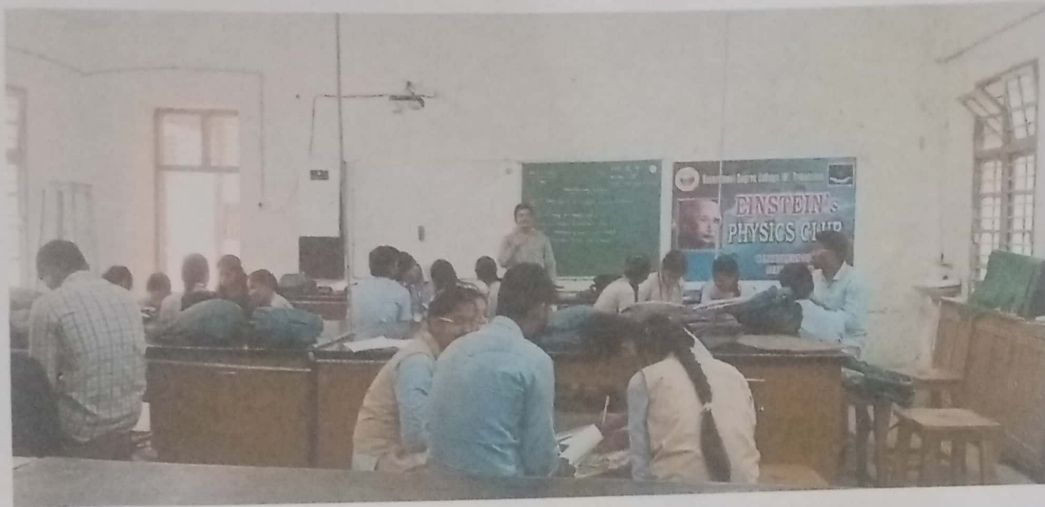
Conclusion ① It is very useful.

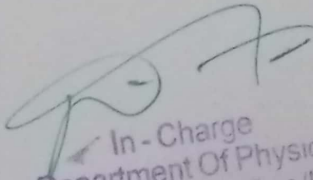
② we know different types
of heat transformations.

③ we know air is
insulator.

① B. Thansi	2122001050004	III mpes	B. Thansi
② B. Bhumiika	2122001050005	III mpes.	B. Bhumiika
③ k. Aditya	2122001050018	III ^{8d} mpes	k. Aditya
④ T. Yathreen Yathreen	2122001050044	III rd mpes	T. Yathreen
⑤ G. Rameswar	2122001050011	III mpes	G. Rameswar

Photo Gallery :




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Department of Physics

Brainstorming Session

Date and Time	24.11.2023
Class	III B.Sc (MPCS)
No.of students participated	25
Name of the Activity	Brainstorming Session
Title	Wouldn't it make more sense to call electrons positively charged because when they move they make electricity? "
Objective	Brainstorming session focused on the topic of "Why were electrons chosen to be negatively charged? Wouldn't it make more sense to call electrons positively charged because when they move they make electricity? " could be to explore, discuss, and generate ideas and hypotheses related to this question. It promotes Critical Thinking,Engage Curiosity,Highlight Scientific Method,and Promote Further Study.
Teacher Activity in this session	1. Asking Questions during this session like below - What is Electricity in Common words? - What are the objects in a material to pass electricity? - What are the charge carriers that transport electricity in an animal? - What are the charge carriers in an ionosphere ? - What are the charge carriers in the discharge tube? - What are the charge carriers in lighting? - What are the charge carriers in a Semiconductor?


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Time :- 12:30 PM to 1:20 PM

24-11-2023

Class :- III MPCS

Semester :- V.

Brainstorming Session

1Q) What is electricity in common words.

Ans Electricity is a form of energy. In general it resembles the flow of electrons in a material.

2Q) What are the objects to pass electricity.

Ans For the passage of electricity in a object there should be flow of electrons when force is applied with possessing minimum quantity of conductivity.

3Q) What are the charge carriers that transport electricity in an animal.

Ans Animals contain positively charged particles for the passage or transport of electricity [Na^+ , K^+ , Ca^{2+}]

4Q) What are the charge carriers in ionosphere.

So The ionosphere consists of negatively charged particles which undergo neutralization with positive ions, resembling neutral charge carriers.

5Q) What are the charge carriers in discharge tube.

Any Discharge tube contains both positive and negative ions which help in charge carrying. eg: Hydrogen discharge tube

Q8 what are the charge carriers in lightning

So The charge carriers in lightning are electrons in the fourth state of matter

Q8 what are the charge carriers in semi conductor

So Electrons and holes [vacant place] are charge carriers in semi conductor.

Q8 What are the charge carriers in solar wind.

So In solar wind. the charged particles i.e electrons and protons are the charge carriers.

Q8 what are the charge carriers in metal wire.

So Free electrons of the metal conductor are the charge carriers in metal wire.

(1) S. Dhillewari [2122001050038]

2) B. Sirisha 2122001050003

3. N. Sandhyarani 2122001050028

4. Ch. Sri Rajya Lakshmi 2122001050008

5. K. Maheswari [2122001050017]

6. Paidi Devika [2122001050031]

Time - 12:30 PM to 1:00 PM.

(2)

Class - III MPES

04-11-2023.

Semester - V.

Q Why the charge of an electron is considered Negative

A Benjamin Franklin performed various experiments and first named ^(electron) it as negatively charged, and other as positive (Proton).

Even if they are reversed there is no change.

Q Who decided electrons are negative

A Benjamin Franklin decided electrons are negative

CONCLUSION.

This Brainstorming session was a very interactive and knowledge improving session with which unknown facts are known.

Interaction with students of the group. This even includes various concept related questions with one core topic.

-At last all of us are interested in these sort of activities.

P. Devika	2122001050031	III BSC MPC
Ch. Sri Rajya Lakshmi	2122001050008	III BSC MPC
B. Swisha	2122001050003	III BSC MPC
S. Shellekhan	2122001050038	III BSC MPC
K. Maheshwari	2122001050017	III BSC MPC

me 12:30 to 1:20 PM

24.11.2023

class: ITMPS

Semester I & II

Brain storming

① what is electricity in common words.
Ans flow of electrons (or) electrical charge (or) power.

② what are the objects to pass electricity?
Ans electrons, conductors, ions, wires
metals like, copper, Iron, gold, silver etc. . . .

③ What are the charge carriers to transport electric current in an animal?

Ans Positive ions, water, Electrical energy, and power
Source, Electrical potential, Calcium, Sodium ions, H₂O.

④ What are the charge carriers in ionosphere?

Ans Gases, potential difference, positively charged cations.

⑤ what are the charge carriers in a discharge tube?

Ans Electrons, positive hydrogen ions, protons

⑥ what are the charge carriers in a lightning?

Ans EMF, plasma (or) electrons in a plasma, waves

⑦ what are the charge carriers in a semi-conductors?

Ans Electrons, holes

⑧ What are the charge carriers in a solar wind

Ans) H_2 , Li , N_2 , O_2 , UV-rays, ions, IR-rays, holes, Visible rays.

⑨ What are the charge carriers in a metal wire?

Ans) free electrons.

10) Why the charge of an electron is $-ve$.

① it attracts $+ve$ charge, so it is $-ve$.

② who decided the electrons are $-ve$

③ Benjamin Franklin.

④

Conclusion I know similar words have different meaning.

① it is very useful.

② I is a good group discussion.

③ we know the different types of word flows.

④ B. Thamsi

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III
MPCS

B. Thamsi

⑤ B. Bhumiika

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B. Bhumiika

⑥ B. Haritha

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⑦ B. V. Thamsi

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Thamsi

⑧ B. Rajeswari

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G. Rajeswari

⑨ K. Lakshmi prasanna

2122001050021

MPCS

K. Lakshmi
prasanna.

Time 12:30pm to 1:20pm

class : III MPes

Semester : V

Brain storming session

1. What is electricity in common words?

A:- Flow of current (i)

Q. What are the objects to pass electricity.

A:- Conductors - ex: Iron, copper, silver

Electrons with charge

3. What are the charge carriers to transport electric in an animal.

A:- Nerves, blood

4. What are the charge carriers in atmosphere?

A:- Positve Inosphere contains free electrons (e⁻)
carriers some magnitude of negative charge which on neutralization with positive charge ions.

5. What are the charge carriers in a discharge tube?

A charge carriers in discharge tube are electrons and positive ions.

6. What are the charge carriers in a lightning?

A:- The charge carriers in a lightning is electrons in plasma.

7) What are the charge carriers in a semiconductor?

A:- Electrons and holes are the charge carriers in semiconductors.

8) What are the charge carriers in solar wind?

A:- Solar wind is a stream of charged particles, ions and electrons, which are continuously escaping from the sun.

9) What are the charge carriers in a metal wire?

A:- Electric current is flow of electric charge. In electric circuits this charge is often carried by

moving electrons in a wire.

10) Why the charge of an electron is negative?

A:- Electron is a sub atomic particle that is negatively charged.

11) Which scientist named electrons as negative?

A:- Benjamin Franklin

Conclusion:-

1) This session makes more useful to us. To know the small different variation between the words similar words.

2) This session helps to improving your thinking, knowledge, etc. We got some concepts of charge carriers behaviours in our daily life.

3) This session helps in improving a way of thinking, group discussion ^{with} ~~between~~ friends makes very fun.

N. Mamatha

2122001050026

N. Mamatha

P. Manasa

2122001050033

Manasa
😊

P. Neeraja

2122001050036

P. Neeraja

J. Sravani

2122001050016

J. Sravani



Brain Storming Session

Time: 12:30 pm to 1:20 pm

Class: III MPCS

Semester: V

Date: 24/11/2023

1) what is electricity in common words?

Ans:- Transporting the current.

2) what are the objects to ~~pass~~ transport electricity?

Ans:- Conductors, which passes the charge of electrons

3) what are the charge carriers to transport electric current in an animal?

Ans:- neurons, (minerals)

4) what are the charge carriers of ionosphere?

Ans:- electrons in ionosphere gases

5) what are the charge carriers in a discharge tube?

Ans:- Holes (ions)

6) what are the charge carriers in a lightning?

Ans:- electrons in transparent material ~~in the~~ (plasma).

7) what are the charge carriers in a semiconductors?

Ans:- Holes, electrons

8) what are the charge carriers in solar wind?

Ans:- charged particles of gas in wind

9) what are the charge carriers in a metal wire?

Ans:- electrons (Flow of electrons)

- 1) P. Dileep (P. Dileep)
- 2 K. Mohan (K. Mohan)
- 3) G. Sudeep (G. Sudeep)
- 4) N. Neelachalam

10) why the charge of electron is negative?

Ans! - ~~the~~ where is positive there is negative,
Benzmin frank give negative charge to electron

(11)

(12)

* Conclusions:-

* This session is useful to us

* We know new things about charge carriers

* How to do group discussion

* This experience is good for us.

<u>Name</u>	<u>H.T. No</u>	<u>group</u>	<u>Signature</u>
P. Dileep	21220010050035	MPES	<u>P. Dileep</u>
N. Neelachalam	2122001050027	MPES	<u>N. Neela</u>
G. Sudeep Kuman.	2122001050012	MPES	<u>G. Sudeep</u>
K. Mohan	2122001050019	MPES	<u>K. Mohan</u>
K. Ganesh	2122001050020	MPES	K. Ganesh

8. What are the charge carriers in Solar wind?

Answer:- Electrons, Protons and alpha particles are the charge carriers in Solar wind.

9. What are the charge carriers in metal wire?

Answer:- Free electrons of the metal conductor.

10. Why the charge of electron is negative?

Answer:- The atom contains proton positive charge to neutralized electron considered as negative.

6.

Conclusion:-

- I learn about concept view of electricity.
- I know about the different type of charge carriers.
- In this Brainstorming Session mainly I learn about electron negative charge.
- I learn charge carriers of electricity
Ionosphere
Discharge tube
Lighting
Semiconductors.

* Signatures:-

<u>Name</u>	<u>Group</u>	<u>H.T NO</u>	<u>Signature</u>
1. S. Pavan Kumar	- III MPCs	- 2122001050037	S. Pavan Kumar
2. H. Purushottam	- III MPCs	- 2122001050015	H. Purushottam
3) Torgi Yatheesh	- III MPCs	- 2122001050044	T. Yatheesh
4) K. Aditya	- III MPCs	- 2122001050018	K. Aditya

Time : 12:30pm to 1:20pm

24.11.2023

Class : III MPCs

Semester : V

Brain Storming Session

1. What is electricity in common words?

Answer:- Electricity is a form of energy and it is a flow of electrons.

2. What are objects to transport electricity?

Answer:- The object which allows to pass electricity are called conductors and semi conductors.
Conductors contain electrons which are used for flow of electricity.

3. What are charge carriers to transport electric current in animals.

Answer:- Neurons to pass the signals in animals.
Neurons are the charge carriers to transport electric current in animals.

4. What are the charge carriers in Ionosphere?

Answer:- Positive charge carriers in Ionosphere.
Positively charged cations are the charge carriers.

5. What are the charge carriers in discharge tube?

Answer:- Charge carriers in discharge tube are electrons.

6. What are the charge carriers in a lightning?

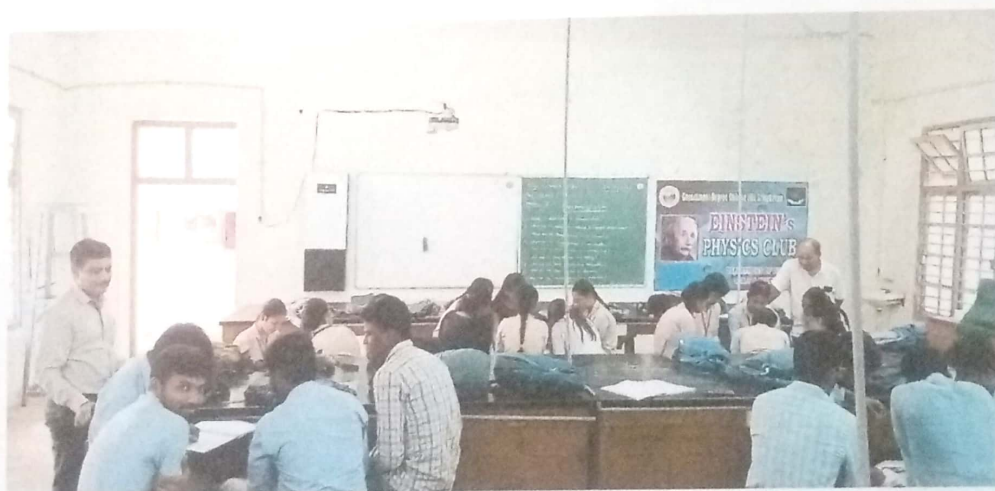
Answer:- Charge carriers in a lightning are ~~Posn~~ Collision of Ions and electrons.

7. What are the charge carriers in Semiconductors?

Answer:- Electrons and holes are the charge carriers in Semiconductors.

Name of the Lecturers who planned & conducted the activity	Sri.M.V.Satyanarayana Sri R.Ravi kumar Sri B.Mohana Rao Dr.GVS Jayapala Rao
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Photo Gallery :



[Signature]
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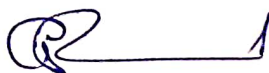


Department of Physics

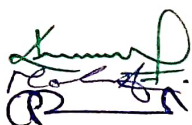
Brainstorming Session

Date and Time	23.02.2023 , 12:50 pm to 1:20 pm
Class	I B.Sc (MPCS & MPE)
No.of students participated	41
Name of the Activity	Brainstorming Session
Title	Does air Form a Shadow?
Objective	The objective of a brainstorming session focused on the topic of "Does Air Form a Shadow?" could be to explore, discuss, and generate ideas and hypotheses related to this question. It promotes Critical Thinking,Engage Curiosity,Highlight Scientific Method,and Promote Further Study.
Teacher Activity in this session	1. Asking Questions during this session like below a. What is Shadow? b. Why did a shadow form? c. What are the prime causes to form Shadow? d. Which property of light is used to form a shadow of air ? 2. Encourage students to share their thoughts and ideas without filtering them.


23/02/23


N. S. S.


In - Charge
Department Of Physics
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	3. Encourage Divergent Thinking Prompt students to think outside the box and consider unconventional solutions or perspectives. Encourage them to push the boundaries of their creativity. 4. Emphasise Learning: Remind participants that the goal of the session is not necessarily to arrive at a definitive answer but to promote curiosity, critical thinking, and a deeper understanding of scientific principles.
Student Activity in this Session	1. Group Sharing : Students in the groups can discuss and refine their hypotheses based on the input from their peers. 2. Debate and Discussion: Organise a debate where students can argue for or against the idea that air forms a shadow. Assign some students to argue in favour of the hypothesis and others against it. This encourages critical thinking and helps students consider different perspectives. 3. Record Ideas: As ideas are generated, write them down on a whitepaper . Ensure that all ideas are captured without judgement or evaluation at this stage.
Documental evidences	https://drive.google.com/file/d/1_HernO9Blq_pYUKCZ9f1_tEdbRybYwnj/view?usp=drive_link
Name of the Lecturers who planned & conducted the activity	Sri.M.V.Satyanarayana Sri R.Ravi kumar Sri B.Mohana Rao Dr.GVS Jayapala Rao 

23/02/2023

- " Brain storming session " -

Is air forms shadow.

Ans: air doesn't form shadow because it is not a object.

1) what is shadow?

when sufficient light incident on object and shadow will be form on behind the object it is known as shadow.

2) why shadow formed?

Ans: one force light is placed on a particular places that light wave incident on a some object present in a place the shadow is formed.

Q) what are causes to form shadows?

⊙ there is a necessary of sunlight (or) light
* shadow is not formed some places.

* the light falls on the object it forms shadow

* the light incident on the particular object faces the light shadow form on behind the object

K. Dhorma Rao	2222 0000 50022	II MPCJ	K. Dhorma Rao
D. Neela Krishna	2222 0010 5004		D. Neela Krishna
R. Rama Krishna	2222 0010 5021		R. Rama Krishna
M. Adhi	2222 0010 5029		M. Adhi
K. Chandrasekhar	2222 0010 5024		K. Chandra Sekhar.
S. Vamsi Krishna	2222 0105 0048		S. Vamsi Krishna.
P. Tulasi Rao	2222 0010 5028		P. Tulasi Rao
A. Vijay Kumar	2222 0010 5001		A. Vijay Kumar
S. Chandrakala	2222 0010 50043		S. Chandrakala.
N. Sravani	2222 0010 50036		N. Sravani
S. Himanth Kumar	2222 0010 50044		S. Hine
M. Prasad	2222 0010 50028		M. Prasad
K.			



→ Topic :- Is air forms shadow?

A:- No, Because air is unable to see. Air has no shape, size. So, it does not form shadow.

2) what is shadow?

A:- when sunlight falls on a object, a image formed in the black colour is called shadow.

* A dark area (or) shape produced by a body coming b/w rays of light & a surface.

3) why shadow is formed?

A:- when object (or) material is placed in light, to form shadow.

* Reflection is the cause of shadow.

4) what are the causes of shadow?

A:- * Mainly, sunlight is the cause to form shadow.

* Because if light shines on to object, and object blocks the light.

* There should be source of light and screen.

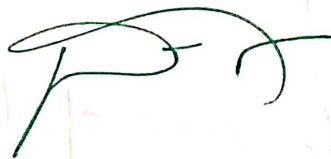
* object must be placed in path of light.

Names :-

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Gi. Mounika	- 2222001050016	Gi. Mounika
N. sravani	- 2222001050036	N. Sravani
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k. dhanalaxmi	- 2222001050020	K. Dhanalaxmi
P. Thansi	- 2222001050040	P. Thansi
Gi. Likhitha	- 2222001050013	Gi. Likhitha
M. kusumanjali	- 2222001050030	M. kusumanjali
T. madhu mohan	- 2222001052047	T. madhu mohan
S. Vilson Babu	2222001052043	S. Vilson Babu
P. Ravi	2222001052035	P. Ravi





Brainstorming Session

Topic:- Is air forms shadow?

1. What is shadow?

A. Any object or material placed between any light. it forms black colour shape behind the object.

2. Why shadow forms?

A. When a light ray travels the object and forms the shadow.

3. What are the causes of forms shadow?

A. presence of (or) absence of light, and shape of the object. and size.

Conclusion:-

We know clearly what is shadow, and how it is forms shadow, and causes of shadow. So, we strongly believes and truth is air doesn't forms any shadow. Because the air doesn't have a shape, so air doesn't forms any shadow.

Signature:-

1. K. Hari prasad - 2222001050024. K. Hari prasad.
2. M. Satish - 2222001050029 M. Satish
3. Ch. Chandrasekhar - 2222001050006. Ch. Chandrasekhar
4. N. Sekhar - 2222001050035. N. Sekhar
5. D. Damodhar - 2222001050009 D. Damodhar
6. G. Lekhana - 2222001050014. G. Lekhana
7. J. Timoji - 2222001050019 J. Timoji
8. P. Somesh. (Mpe) - 2222001050008. P. Somesh.
9. L. Ramesh [M.P.C] - 2222001052025 L. Ramesh
10. M. Guaneswarasao [MPC] - 2222001052030 M. Guaneswarasao





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GOVERNMENT DEGREE COLLEGE (MEN)

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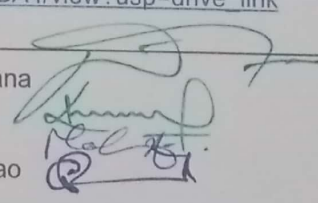
Department of Physics

Brainstorming Session

Date and Time	07.01.2023
Class	I B.Sc (MPC,MPCS & MPE)
No.of students participated	63
Name of the Activity	Brainstorming Session
Title	Discussion on general theory of relativity?
Objective	The objective of a brainstorming session focused on the topic of "general theory of relativity?" could be to explore, discuss, and generate ideas and hypotheses related to this question. It promotes Critical Thinking,Engage Curiosity,Highlight Scientific Method,and Promote Further Study.
Teacher Activity in this session	1. Asking Questions during this session like below - Who explained the General theory of relativity? - What is gravity?? - Who explained the concept of gravity? - What was the acceleration due to gravity on Earth? - Brief about general theory of relativity? 2. Encourage students to share their thoughts and

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	ideas without filtering them. 3. Encourage Divergent Thinking Prompt students to think outside the box and consider unconventional solutions or perspectives. Encourage them to push the boundaries of their creativity. 4. Emphasise Learning: Remind participants that the goal of the session is not necessarily to arrive at a definitive answer but to promote curiosity, critical thinking, and a deeper understanding of scientific principles.
Student Activity in this Session	1. Group Sharing : Students in the groups can discuss and refine their hypotheses based on the input from their peers. 2. Debate and Discussion: Organise a debate where students can argue for or against the idea that air forms a shadow. Assign some students to argue in favour of the hypothesis and others against it. This encourages critical thinking and helps students consider different perspectives. 3. Record Ideas: As ideas are generated, write them down on a whitepaper . Ensure that all ideas are captured without judgement or evaluation at this stage.
Documental evidences	https://drive.google.com/file/d/1_To05URVPGA36MI9Q6-JQOQcLQZJ3BA4/view?usp=drive_link
Name of the Lecturers who planned & conducted the activity	Sri.M.V.Satyanarayana Sri R.Ravi kumar Sri B.Mohana Rao Dr.GVS Jayapala Rao 

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- Brain streaming session -

Topic := Discussion on general theory of Relativity.

① $\Rightarrow$ who explain General theory of relativity.

Ans: The nobal prize winner. Albert Einstein.
He explains in between 1907 - 1915.
Albert Einstein discovered photo electric effect.

② $\Rightarrow$ what is gravity?

Ans: * one body attract another body the power is called as gravity.
* gravity discovered newton. he discovered to the centre of gravity.

③ $\Rightarrow$ who explains the concept of gravity.

Ans: Newton was the first to develop a quantitative theory of gravity.

④ $\Rightarrow$ what is acceleration due to gravity on earth?

Ans: The numerical value for the acceleration of gravity is most accurately known as 9.8 m/s^2 .

⑤ $\Rightarrow$ general theory of relativity explain?

Ans: General relativity is physicist Albert Einstein's understanding of how gravity affects the fabric of space time. The theory which Einstein discovered.

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K. Rama Krishna	2222001052021	IMPCs	K. Rama Krishna
A. Ammaji Rao	2222001052005	IMPC	A. Ammaji Rao
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D. Neela Krishna	2222001050011	IMPCs	D. Neela Krishna
A. Vijay Kumar	2222001050001	IMPCs	A. Vijay Kumar
M. Adi	2222001052029	IMPC	M. Adi
C. Chandra Sekhar	2222001050006	IMPCs	C. Chandra Sekhar

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Brain storming sessionTopic :-

Q) Discuss on general theory of Relativity?

1) who explain general theory of Relativity?

A:- General theory of Relativity established in 1915 by Albert Einstein. In 1905, Einstein published 2 articles on the special theory of relativity.

2) what is gravity?

A:- It is a force by which a planet or other body draws object towards its centre. The force of gravity keeps all the planets in orbit around the sun. It depends on mass.

3) who explains the concept of gravity?

A:- Newton explains the concept of gravity.

4) what is acceleration due to gravity on earth?

A:- Acceleration due to gravity is represented by G . The standard value of G on the surface of the earth at sea is 9.8 m/s^2 .

5) Explain General theory of relativity?

It is also known as Einstein theory of gravity. According to General theory

of relativity matter causes space to curve.

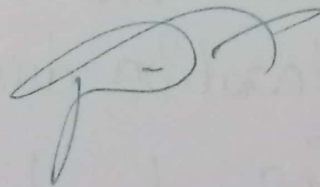
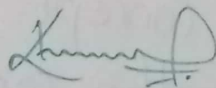
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R. Ravikumar Swamy - 2222001052038 R. Ravikumar Swamy



Brain Storming Session:-

Topic :- Discussion on general theory of relativity?

1. who explain general theory of relativity.

A:- It explains gravity based on the way space can "curve" or to put it more accurately it associates the two forces of gravity with the changing geometry of space time.

2. what is gravity?

A:- i) Gravity is the force by which a planet or other body draws objects towards its centre.

ii) the force of gravity keeps all of the planets in orbit around the sun.

3. who explains the concept of gravity?

A:- Legend has it that Isaac Newton formulated gravitational theory in 1665 or 1666 after watching an apple fall and asking why the apple fell straight down, rather than sideways or even upwards.

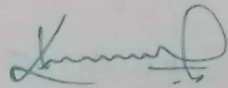
4. what is acceleration due to gravity on earth?

A:- Acceleration due to gravity is represented by "g" the standard values of g on the surface of the earth at sea level is 9.8 m/s^2 .

5. General theory of relativity, explains ?

- A:- i) General theory relativity, also known as the general theory of relativity and Einstein's theory of gravity is the geometric theory of gravitation published by Albert Einstein in 1915.
- ii) the current description of gravitation in modern physics.

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S. Ganesh	2222001050044	S. Ganesh
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N. Anitha MPC	2222001052034	N. Anitha



1) Discussion on General theory of relativity

- * It explains gravity based on the way space can curve
- * generally relativity also known as the general theory of relativity
- * And it is ^{explained} ~~proposed~~ "Albert Einstein" in 1915

2) Who explain general theory of relativity?

Generally general theory of relativity was established in 1915 by Albert Einstein and he also made important contributions to quantum mechanics

3) What is gravity?

- * Gravity is the force by which a planet or other body draws objects towards it's center
- * Gravity is a force which tries to pull ~~to~~ 2 objects towards each other

4) What is acceleration due to gravity on earth?

acceleration due to gravity on earth is 9.81 m/s^2

5) General Theory of Relativity explains?

General relativity is a physics theory about space and time and it has a beautiful mathematical description

Names

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A. Srideni	MPC	2222001052006	A. Srideni
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L. Ramesh	M.P.C	2222001052025	L. Ramesh
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K. Abhilash	MPC	2222001052022	K. Abhilash

[Signature]

1) Discuss general theory of relativity?

Ans. General relativity also known as the general theory of relativity and Einstein's theory of gravity. It was published by Albert Einstein in 1915. The general relativity generalises special relativity & subsumes Newton's law of universal gravitation, and is the current description of gravitation in modern physics.

2. Who explain general theory of relativity?

Ans. General Relativity was established in 1915 by Albert Einstein, and the first solution to Einstein Equation were found already in early 1916.

3. What is gravity?

- * Gravity is a force of attraction b/w two objects.
- * All objects with mass have their gravity.
- * Gravity acts like magnet - pulling objects together.
- * What causes gravity is not really known.

4. Who explain the concept of gravity?

Ans. Legend has it that Isaac Newton formulated gravitational theory in 1665 or 66 after watching an apple fall and.

asking why the apple fell straight down, rather than sideways or even up ward.

6. What is the acceleration due to gravity?

* gravity is only significant if, one or both of the objects are very massive (like a planet, star or moon).

* acceleration due to gravity is 9.8 m/s^2 .

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MPC :-

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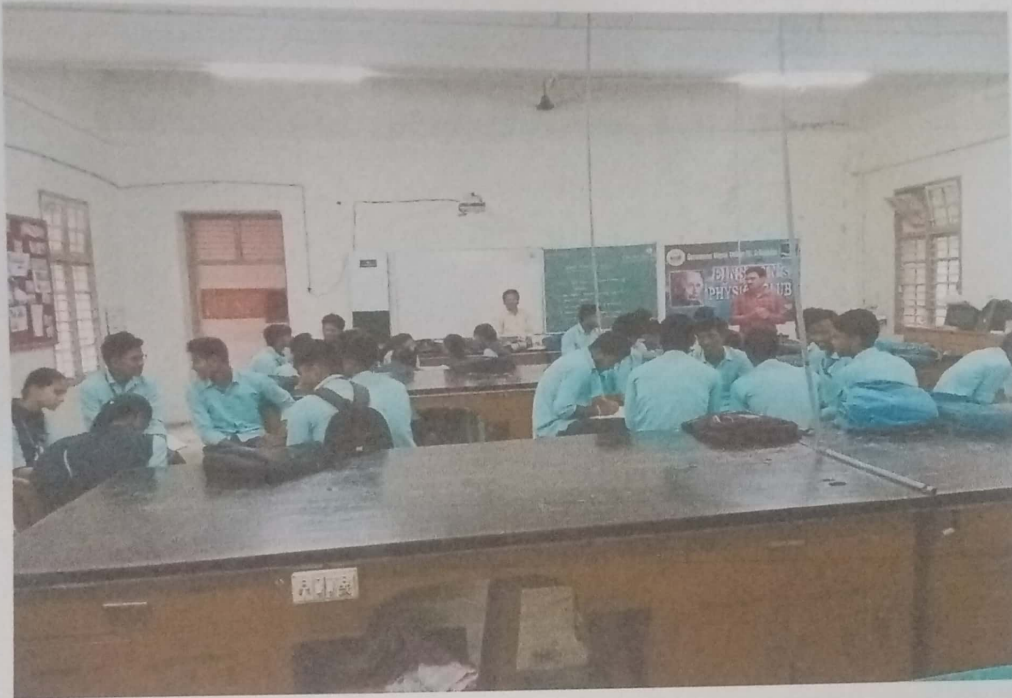
T. Tanuja $\rightarrow$ 2222001052046 $\rightarrow$ T. Tanuja

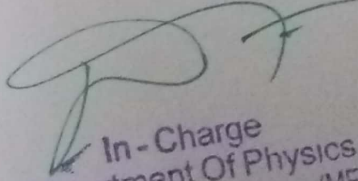
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D. Khogekar $\rightarrow$ 2222001052014 $\rightarrow$ D. Khogekar

P. Rama Raju $\rightarrow$ 2222001052037 $\rightarrow$ P. Rama Raju

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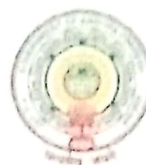


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Department of Physics

Brainstorming Session

Date and Time	14.12.2022
Class	I B.Sc (MPC,MPCS & MPE)
No.of students participated	59
Name of the Activity	Brainstorming Session
Title	Why is a 12 volt household battery harmless but a 12 volt car battery is harmful?
Objective	Brainstorming session focused on the topic of "12 volt household battery is harmless but a 12 volt car battery is harmful?" could be to explore, discuss hypotheses related to this question. It promotes Critical Thinking,Engage Curiosity,Highlight Scientific Method,and Promote Further Study.
Teacher Activity in this session	1. Asking Questions during this session like below - What is Battery? - Different types of batteries? - How do you measure the energy of the battery? - What are the factors that influence energy ? 2. Encourage students to share their thoughts and ideas without filtering them.

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	3. Encourage Divergent Thinking Prompt students to think outside the box and consider unconventional solutions or perspectives. Encourage them to push the boundaries of their creativity. 4. Emphasise Learning: Remind participants that the goal of the session is not necessarily to arrive at a definitive answer but to promote curiosity, critical thinking, and a deeper understanding of scientific principles.
Student Activity in this Session	1. Group Sharing : Students in the groups can discuss and refine their hypotheses based on the input from their peers. 2. Debate and Discussion: Organise a debate where students can argue for or against the idea that air forms a shadow. Assign some students to argue in favour of the hypothesis and others against it. This encourages critical thinking and helps students consider different perspectives. 3. Record Ideas: As ideas are generated, write them down on a whitepaper . Ensure that all ideas are captured without judgement or evaluation at this stage.
Documental evidences	https://drive.google.com/file/d/1Td_vy6fv254-mCOY9b47t1QBt6Vcqc/view?usp=drive_link
Name of the Lecturers who planned & conducted the activity	Sri.M.V.Satyanarayana Sri R.Ravi kumar Sri B.Mohana Rao Dr.GVS Jayapala Rao 

Brain Storming Session

→ Why 12V household battery harmless, but 12V car battery harmful?

1) What is battery?

Battery is a device that converts the chemical energy into electrical energy. The chemical reactions in a battery involve the flow of electrons from one material to another.

2) What are the types of batteries?

There are so many types of batteries, mainly batteries are primary and secondary.

Some types of batteries are as follows.

1. Lithium batteries
2. Alkaline batteries
3. flow batteries

3) How do you find the energy in the battery?

Battery stores energy in the form of chemical energy. A battery is made by combining two or more cells together. The cell or battery change the chemical energy obtained from reactions between the electrolytes and electrodes into electrical energy.

1. G. Lekhana - 2222001050014 - G. Lekhana.
2. G. Mounika - 2222001050016 - G. Mounika
3. G. Likhitha - 2222001050013 - G. Likhitha
4. P. Sreeja - 2222001050041 - P. Sreeja
5. G. Nagamani - 2222001052017 - G. Nagamani
6. T. Tanuja - 2222001052046 - ~~T. Tanuja~~ T. Tanu

[Signature]

12-2022

Brain storming

MPC/MPCS/
MPE6

Topic: why 12v house hold battery is harmless
But 12v car battery is harmful

1. what is battery?

A battery is a device which converts chemical energy contained within its active material directly into electrical energy by means of an electrochemical oxidation-reduction reaction.

2. Types of batteries?

1. lithium ion a. lead
2. lithium s. Alkaline
3. lead-acid

3. How do you find the energy in the battery?
Energy depends on (i) (current) if current increases, energy increases.

Power of capacity is how much energy is stored in the battery. This is power is often expressed in watt-hour.

HF NO

- 1) B. Rajasekhar MPC 22220001052007
- 2) K. Subhas chandrababu MPC 22220001052023
- 3) G. Akhil MPC 22220001052018
- 4) S. Wilson babu (MPC) 22220001052043
- 5) B. Rama Rao (MPC) 22220001052008
- 6) B. Ravikumar (MPC) 22220001052012
- 7) K. Abhilash (MPC) 22220001052022
- 8) S. Himanth Kumar (MPC) 22220001052044

Signature

Sig M.P.C.

R. Subh

G. Akhil

S. Wilson babu

B. Rama Rao

Ravi

K. Abhilash

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Brain Storming

Topic: why 12V house hold battery is harmful But 12V Car battery is harmful.

1] what is battery?

A battery is a device which converts chemical energy contained within its active material directly into electrical energy by means of an electro chemical oxidation reduction reaction.

2] Types of Battery?

- | | |
|----------------|-------------|
| 1] lithium ion | 4] lead |
| 2] lithium | 5] Alkaline |
| 3] lead-acid | |

3] How do you find the energy in the battery?

Energy depends on [i] [current] if current increases energy increases.

power or capacity is how much energy is stored in the battery this is power is often expressed in watt hour.

<u>Name</u>	<u>group</u>	<u>hall ticket no</u>	
L. Ramesh	M.P.C	2222001052025	L. Ramesh
T. madhu richan	M.P.C	2222001052047	T. madhu richan
M. Gnanaswasa Rao	M.P.C	2222001052030	M. Gnanaswasa Rao
R. Ravi Kumar	M.P.C	2222001052038	R. Ravi Kumar
P. Sivakumara Rao	M.P.C	2222001052039	P. Sivakumara Rao
M. Chandhini	(M.P.C)	2222001050034	M. Chandhini
P. Ravi	[M.P.C]	2222001052035	P. Ravi

[Signature]

Brain storming

Date: - 14/12/2022

Brain storming

Topic:- why 12V household battery harmless but 12V car battery harmful?

Ans:-

⇒ 12V household battery current flow less intensity. So the 12V household battery doesn't harm to the person. 12V car battery current flow high intensity. So the 12V car battery harmful to the person.

(1) what is Battery?

A:- ⇒ chemical energy convert into electrical energy
⇒ storing the electrical energy is called battery.

(2) Types of Batteries?

A:- lithium ion battery.

(3) How do you find the energy in the Battery?

A:- ⇒ voltmeter

⇒ Power capacity is how much energy is stored in the battery. This power is often expressed in watt-hours.

A. Vijay Kumar,	2222001050001	$\frac{\pi}{\text{MPC}}$	A. Vijay Kumar
D. Neela Krishna,	2222001050011	$\frac{\pi}{\text{MPC}}$	D. Neela Krishna
K. Dharmarao	2222001050022	$\frac{\pi}{\text{MPC}}$	D. Dharmarao
A. Ammaji Rao	2222001052005	$\frac{\pi}{\text{MPC}}$	A. Ammaji Rao
K. Rama Krishna,	2222001052021	$\frac{\pi}{\text{MPC}}$	K. Rama Krishna
M. Adi	2222001052029	$\frac{\pi}{\text{MPC}}$	M. Adi
K. Chandrasechar	2222001052024	$\frac{\pi}{\text{MPC}}$	K. Chandrasekar
S. Vamsi Krishna	2222001050048	$\frac{\pi}{\text{MPC}}$	S. Vamsi Krishna
P. Tulasi Rao	2222001050038	$\frac{\pi}{\text{MPC}}$	P. Tulasi Rao
G. Saitya	2222001050015	$\frac{\pi}{\text{MPC}}$	G. Saitya

[Signature]

Bjain streaming session :-

Date: - 14.12.2022

1) Why 12V household Battery harmless, But 12V car battery harmful.

- A) $\rightarrow$ the car Battery can produce a lot of current and that can rapidly heat metallic objects enough to cause damage.
- $\rightarrow$ the skin has a very high resistance, leading to low current, and the Battery has a low voltage, leading to low current.

2) What is Battery.

- A) A Battery is a device that converts chemical energy contained within its active materials directly into electrical energy by means of an electrochemical oxidation-reduction reaction.

3) Types of Batteries?

- A) Nickel-cadmium Battery, Daniell cell, lithium ion, zinc, lead Alkali, drycell and Aluminium-air Battery.

4) How do you find the energy in the Battery?

- A) A watt-hour is the voltage (V) that the Battery provides multiplied how much current (Amps) the Battery can provide for some amount of time.

$$\text{Voltage} \cdot \text{Amp} \cdot \text{hours} = \text{Watt}$$

1) A Sameeya	BSC (MPC)	2222001052001	A Sameeya
N Anitha	MPC	2222001052034	N Anitha
A. Sridevi	MPC	2222001052006	A. Sridevi
K. Shanalaemi	MPCS	2222001050020	K. Shanalaemi
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M. Chandini	MPCS	2222001050034	M. Chandini

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Brain Storming session

→ Why 12V household battery harmless, but 12V car battery harmful?

1) What is battery?

Battery is a device that converts the chemical energy into electrical energy. The chemical reactions in a battery involve the flow of electrons from one material to another.

2) What are the types of batteries?

There are so many types of batteries, mainly batteries are primary and secondary.

Some types of batteries are as follows.

1. Lithium batteries
2. Alkaline batteries
3. flow batteries.

3) How do you find the energy in the battery?

Battery stores energy in the form of chemical energy. A battery is made by combining two or more cells together. The cell or battery change the chemical energy obtained from reactions between the electrolytes and electrodes into electrical energy.

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Bjain streaming session:-

Date:- 14.12.2022

1) Why 12V household battery harmless, but 12V car battery harmful.

- A) $\rightarrow$ the car battery can produce a lot of current and that can rapidly heat metallic objects enough to cause damage.
 $\rightarrow$ the skin has a very high resistance, leading to low current, and the battery has a low voltage, leading to low current.

2) What is Battery.

- A) A Battery is a device that converts chemical energy contained within its active materials directly into electrical energy by means of an electrochemical oxidation-reduction reaction.

3) Types of Batteries?

- A) Nickel-cadmium Battery, Daniell cell, lithium ion, zinc, lead Alkali, dry cell and Aluminium-air Battery.

4) How do you find the energy in the Battery?

- A) A - Watt-hour is the voltage (V) that the Battery provides multiplied how much current (Amps) the Battery can provide for some amount of time.

$$\text{Voltage} \cdot \text{Amp} \cdot \text{hours} = \text{Watt}$$

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Brain storming

Date:- 14/12/2022

Brain storming

Topic:- why 12v household battery harmless but 12v car battery harmful?

Ans:-

⇒ 12v house hold battery current flow less intensity. so the 12v household battery doesn't harmless to the person. 12v car battery current flow high intensity. so the 12v car battery harmful to the person.

(1) what is Battery?

A:- ⇒ chemical energy convert into electrical energy
⇒ storing the electrical energy is called battery.

(2) Types of Batteries?

A:- lithium ion battery.

(3) How do you find the energy in the Battery?

A:- ⇒ voltmeter

⇒ Power capacity is how much energy is stored in the battery. This power is often expressed in watt-hours.

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Brain Storming

Topic: why 12V house hold battery is harmful But 12V car battery is harmful.

1] what is battery?

A battery is a device which converts chemical energy contained within its active material directly into electrical energy by means of an electro chemical oxidation reduction reaction.

2] Types of Battery?

1] lithium ion

4] lead

2] lithium

5] Alkaline.

3] lead-acid

3] How do you find the energy in the battery?

Energy depends on [i] [current] if current increases energy increases.

power or capacity is how much energy is stored in the battery this is power is often expressed in watt hour.

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14-12-2022

Brain storming

MPC / MPCs /
MPEG

Topic: why 12v house hold battery is harmless

But 12v car battery is harmful.

1. what is battery?

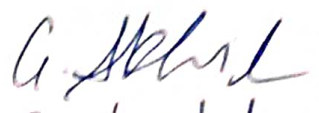
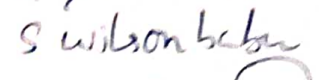
A battery is a device which converts chemical energy contained ~~in~~ within its active material directly into electrical energy by means of an electro chemical oxidation-reduction reaction.

2. Types of batteries?

- | | |
|----------------|-------------|
| 1. lithium ion | 4. lead |
| 2. lithium | 5. Alkaline |
| 3. lead-acid | |

3. How do you find the energy in the battery?
Energy depends on (i) current. If current increases, energy increases.

Power & capacity is how much energy is stored in the battery. This is power is often expressed in watt-hour.

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