

Jaffna Zonal Education Office
Term-1,
Unit Exam-02 (static electricity)
Science
Part-1

Grade 7

Time- 40 min

I) Underline the most appropriate answer.

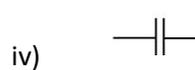
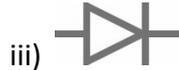
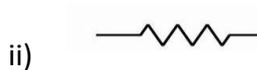
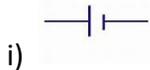
1. Which instrument is used to identify the static electricity in the laboratory?

- i) Ammeter ii) Voltmeter iii) Galvanometer iv) Gold leaf electroscope

2. Who was the first scientist to investigate on lightning?

- i) Benjamin Franklin ii) William Gilbert iii) Thales iv) Alexander volta

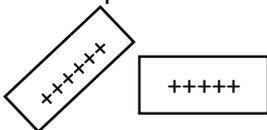
3. The symbol of capacitor is



4. When two objects are rubbed with each other and they are charged. Because transferred from one object to the other object.

- i) Positive particles ii) Negative particles iii) Positive and Negative particles iv) All are not correct

5.



Glass rods rubbed with the silk cloth and they were brought towards. The reason for the observation. Obtained here?

- i) like charges repel ii) like charges attract iii) Unlike charges repel iv) Unlike charges attract

(5x2=10)

II) Fill in the blanks with suitable words.

Static electric charges collect on the cloud and the cloud becomes (i)

Then discharge of electric charge is accumulated on a cloud to another cloud or to the (ii)

as a (iii) is known as (iv) This is related to a natural

(v)

(5x2=10)

Part –II

I A) Grade 7 students are participated the following activity for their science subjects.

Dry hair was rubbed by plastic pen. Then the pen is hold close to the pieces of paper.

1) What is the observation gained by the students?

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2) Which are generated on the surface of the pen, when it was rubbed with hair?

.....

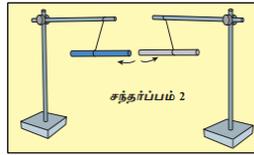
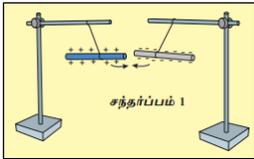
3) Who was the first scientist revealed that light things are attracted to rubbed objects. ?

.....

4) Give two phenomena that associated with static electricity in day to day life. ?

.....

B) Glass rod rubbed with silk cloth and ebonite rod rubbed with woollen cloth were hanged on the stand.



i) Which type of electro static charge is obtained by glass rod?

.....

ii) Which type of electrostatic charge is obtained by ebonite rod?

.....

iii) What is the observation when the rods bring toward?

.....

iv) Rods bring towards again and again, what is your observation?

.....

v) Explain the observation that get in question (iv) ?

.....

vi) What is your conclusion from this activity?

.....

(10x5= 50)

II) The function of a device that can storage of static electric charge is shown below.

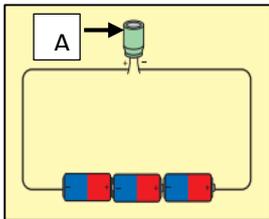


Fig I

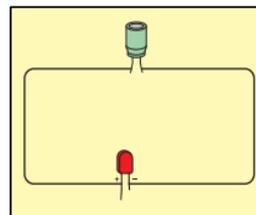


Fig II

i) What is the device that denote A in the Figure?

ii) Name the figure that shows the following function.

a) Charging: -

b) Discharging:-

iii) Mention the terminals of the device A on the figure II?

iv) What is the unit of charge that store in the device A?

v) Mention 2 equipment that contain A in day today life?

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(5x6=30)