SYMBIOSIS SCHOOL, NASHIK

## STD: X TERM 1 2020 -21

**PHYSICS:L.14,12 REVISION WORKSHEET1 MM:25**

**SECTION A 1 x 8 = 8**

Q1. Why is biogas plant a safe and efficient method of waste disposal? Justify

Q2. Mention any one reason due to which most of the thermal power plants are set up

near coal or oil fields.

Q3. Why is the outer surface of a solar cooker blackened?

Q4. Calculate the number of electrons constituting one coulomb of charge (charge

on 1 electron = 1.6x10-19C)

Q5. Name and define the SI unit of electric current.

Q6. In a circuit if two resistors of 5Ω and 10Ω are connected in series. Compare the

current passing through the two resistors.

Q7. Keeping the potential difference constant, if the resistance of an electric circuit

is doubled. State the change in the reading of an ammeter connected in the circuit.

Q8. List any two factors on which resistance of a conductor depends

**SECTION B 3 x 4 = 12**

Q9. State three distinguishing features between fossil fuels and solar energy.

Q10. Define geothermal energy. How is geothermal energy harnessed to produce electricity

Q11. Elements of electric toaster and electric iron are made of an alloy rather than a

pure metal. Give reasons to justify the statement

Q12. a) What is meant by resistance of a conductor?

b)Calculate the resistance of a resistor if the current flowing through it is 200mA

when the applied potential difference is 0.8V

**SECTION C 5 x 1 = 5**

Q13. a) Name and State the law that gives relationship between the current through a

conductor and the potential difference across its two terminals. Also express this

law mathematically.

b) Draw the V I graph for this law.

c) Draw the symbol for

1) closed key 2)variable resistor