KHM HIGHER SECONDARY SCHOOL VALAKKULAM
SELF EVALUATION, JAN - 2021
PHYSICS
STD:X.   **Time:45 Minutes.**   **Max.Marks:20**

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(Answer Any Three Questions From 1-5 . Each Question Carries One Mark)

Find The Odd One
1, $P=I^2R$, $P=IR^2$, $P=V×I$, $P=V^2÷R$ (1)
Find The relation and fill up
2, Heat : Joul
 Power : _____   (1)

3, Transformer : Mutual Induction
Inductor : _____   (1)
4, Storage Battery (While Charging) : Chemical Effect
_____ : Heating Effect   (1)
5, For the same reflecting surface area which of the following has maximum field of view   (1)
(Concave Mirror , Plane Mirror , Convex mirror)

(Questions 6-8 carries 2 Marks Each)

6, a)Why is incandescent lamp filled with an inert gas?   (1)
b)Name the filament that used in a filament lamp?   (1)

7, Write the main parts of a moving coil loud speaker ? Write The working principle of this device   (2)

8, 12 ohm , 4 ohm resistors are connected in series with 12V battery . Draw the circuit diagram and find out the effective resistance   (2)

9, Draw the graphs of current (emf) produced by the following sources
a)AC dynamo
b)DC dynamo
c)Battery   (3)

(Questions 10-11 carries 4 marks)

10, a)Write two precautions to be taken to avoid electric shock
(2)
     b)Write two first aids to be given in the case of electric shock   (2)

11, a)what is the function of a transformer? What is the working principle of
a transformer?   (2)

b)Define reflection of light . Write down the laws of reflection . (2)