KHM HIGHER SECONDARY SCHOOL, VALAKKULAM

SECOND TERMINAL EVALUATION - 2021

PHYSICS

Max.Marks:30 STD: X Time: 01 hrs

Find out the relation 1. Transformer:mutual induction	
	(1)
2.In which voltage, electricity produced in powerstation?	(1)
3. Which device is used to change AC voltage without cha (1)	anging power?
4.a) State joule's law ?b) Calculate the heat developed, when 0.5A current flo minutes through an electric ironbox design to work under	
5. 12 ohm, 4 ohm resistors are connected in parallel.a)Draw the circuit diagram ?b)Find out the effective resistance ?	(1) (1)
6.Name any two parts of moving coil loudspeaker? Write principle?	the working (2)
7.Draw the graphical representation of emf obtained from generator, a battery and a DC generator?	an AC (3)
8.State the laws of reflection ?	(2)
9. The input voltage of a transformer is 240V. There are 8 secondary coil and 800 turns in the primary coil. What is voltage of the transformer?	

- 10.Find out the number of images formed between two plane mirrors placed at an angle of 45° using the equation? (2)
- 11.List out the difference between step up transformer and step down transformer? (2)
- 12. Write down any two first aid to be given in the case of electric shock? (2)
- 13. Write down two main problems during power distribution? how can we solve these problems? (2)
- 14. Which law helps to find out the direction of magnetic field in a current carrying conductor? State the law? (2)
- 15. The X,Y,Z terminals of the given electric iron box is connected to which of the terminals of the sockets via a three pin plug? (1) How can safety be ensured using a three pin plug? (2)

