STANDARD 10 PHYSICS

CLASS TEST - PHYSICS

GTHS ADIMALY

LESSON 1&2

SCORE :20 TIME:1 HOUR

1.Identify the picture 1/2



2.LED : Lighting effect, safety fuse:	1/2
3.Explain the working of discharge lamps	2
4. Three devices are connected to a circuit having voltage 24	0 V.
An electric iron having power 750 W , Mixie having power	
1000 W, and a bulb having power 20 W.	
a. Find the total wattage in the circuit	1
b. Find the amperage of the fuse wire to be connected	1
5. State the Joule's Law	1/2
6. A circuit has 240 voltage. A bulb having power 100 W is	
connected to this circuit. If the voltage is reduced to half, fin	nd the
amperage of the bulb.	2
7.Write the reason for filling bulb with an inert gas	1/2
8. Which is the rule related to direction of magnetic field aro	und
the current carrying conductor	1/2

9.Draw the magnetic field around the following solenoid



a. In the picture there are three points marked as A,B,C. In these points, which are the points the maximum and minimum field strength is felt 1

Justify your answer.

10.Write an experiment report to explain the magnetic field is produced while passing current through a circular coil, with help of picture. 2

11.By drawing picture ,explain a current carrying conductor that is placed in a magnetic field experiences a force. 2

a.Which are the factors that affect the force on the conductor?1 b. What are the change in the movement of the conductor if the direction of current changes? 1

12.Which are the situations that lead to short circuit? 2 13.A positively charged particle is moving towards east and it is defected towards south due to magnetic field. Find the direction of magnetic field 1

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