

MAR THOMA HSS CHUNGATHARA
SECOND MID TERM EXAMINATION- October 2023

CLASS 10

PHYSICS

SCORE 20

Each question from 1 to 2 carries 1 score

1. Observe the relations between terms in the first pair and complete the second pair.
- Moving coil loud speaker : Motor principle (1)
- AC generator : (1)
2. What is the voltage of electricity supplied to the distribution transformer? (1)

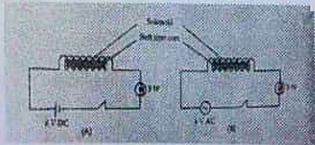
Each question from 3 to 4 carries 2 score

3. A refrigerator of power 750 W works daily for 2 hours. Calculate the energy consumed in one month (November)? (2)
4. Inductors and resistors are used to reduce current in a circuit to a desired value. But inductors are not used in DC circuits why? Explain, (2)

Each question from 5 to 6 carries 3 score

5. Analyse the figure to answer the questions.

- (a) In which circuit is a varying magnetic field developed around the solenoid?
- (b) Which bulb in the circuit glows when the switch is kept on?
- (c) Explain whether there is a difference in the intensity of the light of the bulb?



6. The current in the secondary coil of a transformer 1A and that in the primary is 0.5 A.
- (a) What type of a transformer is this? (1)
- (a) If 200 V is available in the secondary coil of this transformer, what is the voltage in the primary? (1)
- (b) Write the working principle of a transformer? (1)