Cosmo School

Physics	Worksheet 3 : 16/08/2020	Class - X

CHAPTER 12 : MAGNETIC EFFECTS OF CURRENT

Instructions:

✓ Read the chapter in your book - quickly and thoroughly, preferably more than once.
✓ Watch the uploaded video classes from school's website. For becoming more clear about the basics, watch more than once, if needed.
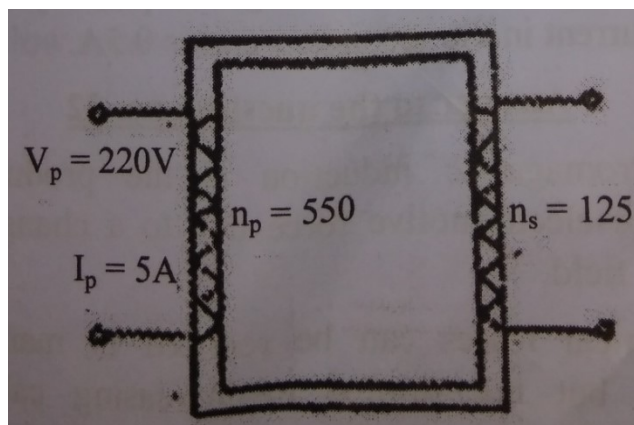
(Questions given in this worksheet are important questions for all exams)

✓ Contact me in case of any difficulties in understanding.

Creative Questions

(Solve Yourself)

1. Observe the following figure carefully and answer the questions.

a) Calculate the voltage of secondary coil.

b) From the stem, mathematically show that the total power in the primary coil is equal to that of the secondary coil.

2. The ratio of the number of turns of the primary and secondary coil of a transformer is 1:50. The electric current and voltage of the primary coil is 5A and 220V respectively.

a) Find $E_P : E_S$ according to the stem.

b) From the stem mathematically show that the electric power of the primary and secondary coil of the transformer remains constant.