Cosmo School

| Physics | Worksheet 5 : 16/09/2020 | Class - X |

CHAPTER 12 : MAGNETIC EFFECTS OF CURRENT

Instructions:

✓ Watch the uploaded video class from school's website/YouTube channel.
✓ For becoming more clear about the basics, watch more than once, if needed.
✓ Contact me in case of any difficulties in understanding.

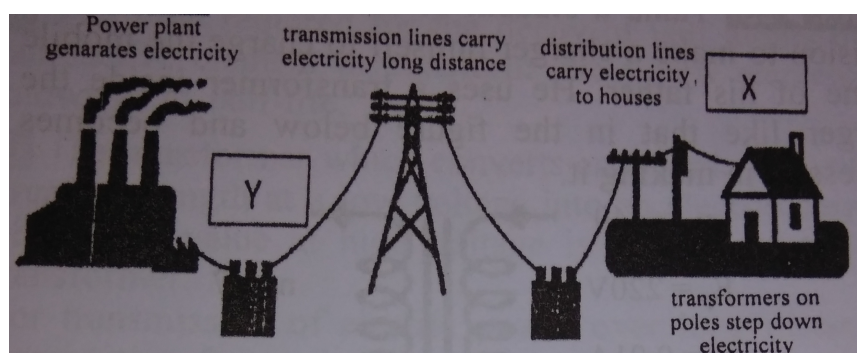(Questions given in this worksheet are important questions for all exams)

Creative Questions

(Solve Yourself)

1.

Transformer	Electricity		No. of coil		Voltage	
	Primary	Secondary	Primary	Secondary	Primary	Secondary
A	X	13A	150	18000	220V	Y
B	-	-	1100	550	440V	Z

a) Find out the value of X from the above table.

b) Find out the value of Y and Z and then show that which transformer is convenient to use near our house (Mathematical explanation is compulsory).

2.

Transformer	Number of turns		Electric current		Voltage	
	Primary	Secondary	Primary	Secondary	Primary	Secondary
A			0.5A	0.01A	1000V	-
B	60	30			-	250V

a) Calculate the ratio of the electric current between primary and secondary coil of transformer B.

b) Between A and B transformer which one is convenient for X and Y place in above figure? Analyze mathematically.