

CCT TEST ITEM

CLASS : PLUS TWO

SUBJECT : PHYSICS

Name of the Teacher : Anjali v

Name of the chapter: Alternating Current

Transformer is a device which works only in AC not in DC ,its working principle is mutual induction. It changes AC voltage and current but does not alter the frequency of AC. A transformer consists of two coils wound over a soft iron core. The number of turns in the primary and secondary coils of a transformer are 1000 and 100 respectively. The primary coil is connected to a main supply of 12v and secondary is connected to a resistor of resistance 6 ohm.

Q.1. The value of output voltage in the secondary coil is.

- a) 1.2 v**
- b) 3 v**
- c) 12 v**
- d) 6 v**

Ans: 1.2 v

Q.2. The value of current flowing through the resistor connected in the secondary.

- a) 0.6 A**
- b) 0.2 A**
- c) 2 A**
- d) 3 A**

Ans: 0.2 A

Q.3. The value of current in primary coil.

- a) 2 A**
- b) 0.2 A**

c) 0.02 A

d) 0.4 A

Ans: 0.02

Q.4. The power dissipated in the primary coil.

a) 12 W

b) 0.24 W

c) 24 W

d) 6 W

Ans:0.24 W