

# PHYSICS

31. (1)

For resonant frequency to remain same LC should be const.  $LC = \text{constant}$

$$\Rightarrow LC = L \times 2C \Rightarrow L' = \frac{L}{2}$$

32. (1)

Laminated core provide less area of cross-section for the current to flow. Because of this, resistance of the core increases and current decreases thereby decreasing the eddy current losses.

33. (2)

$$N_p = 140, N_s = 280, I_p = 4 \text{ A}, I_s = ?$$

For a transformer,  $\frac{I_s}{I_p} = \frac{N_p}{N_s}$

$$\frac{I_s}{4} = \frac{140}{280} \Rightarrow I_s = 2 \text{ A}$$

34. (3)

35. (1)

36. (2)

37. (1)

38. (1)

39. (1)

40. (3)



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