

Difficulty level – Medium to hard

1. What are the magnetic materials used for the magnetic frame?
2. Which magnetic material used for the magnetic frame has better magnetic properties?
3. Mention the reason for using five limb construction for three phase core-type transformer.
4. What are the effective requirements of a properly designed core of a transformer?
5. What are the essential properties of transformer steel?

6. Provide the limiting values of flux density used with hot-rolled steel and cold-rolled grain-oriented steel.

7. Why transformers employ stepped core?
The following are the reasons for employing stepped core:

8. Mention the merits of using comparatively higher flux density in the core.

9. Why low voltage and high voltage windings employ circular coils?

10. Mention the types of windings generally used for low voltage winding.

21. Mention the advantages of providing tapping in *h.v.* winding.

26. Why circular coils are always preferred over rectangular coils for winding a transformer?

35. Why stepping is not employed in yoke?

68. Mention the relation of output and losses in a transformer with variation in linear dimensions.