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Basic Electrical LAB LAZ.

- 9. write short note on.
- 1) list various parts of the transformer.
 - list various parts of the Induction mater.
- → 1) list various parts of the transformer.
 - The care of transformer is used to support the unindings.
 - It is made of soft iron to reduce eddy current loss and hysteressis loss, and provides low teluctance path to flow of magnetic flux.
 - ii) Windings.

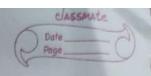
 It consists of several copper coil turns
 lundled together, each lundle connected to
 form a complete winding.

 It can be based either on the input output

 Supply or on the voltage range.
 - Insulating materials.

 Insulating materials like papers and card liberts are used to isolate primary and secondary windings from each other as well as the transformer core.

 These windings are made of copper due to high conductivity



and ductility.

iv) Iransformer oil

It insulates as well as cools the core and cail assembly.

v) conservator.

titted above the transformer that conserves the transformer oil.

It is vented at the top and is filled only half with the oil to allow expansion and contraction during temperature variations.

Vi) Breather.

- It is the cylindrical container filled with silica gel, which is used to keep therain that enters the tank maisture - free.

Vii) Tap (hanger.

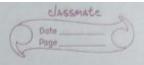
- to balance voltage variations within the tronsformer, tap changers are used.

There are two types of tap changers - on load and off load.

viii) cooling tules.

- It is used to cool the transformer oil.

- Circulation of ail within the transformer may be natural or forced.



ix) Buchholz Relay.

Placed over the connecting pipe that runs from the main tank to conservator tank the Buchholz telay senses the feults occurring within the transformer.

x) Explosion vent.

The hailing hat oil from the tronsformer is expelled during internel faults through the explosion of the tronsformer.

- It is generally placed allove the level of the conservatory tank.

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-> 2) list various parts of the Induction mater: i) stator frame. It is made up of case iron and its function is to support the care and protect inner parts. ii) stator core. It is made up of silicon steel and its function is, it houses stator winding. iii) stator winding. - Material used to make this is copper & insulated. It's function is to product rotating magnetic field. iv) Rator core. - It is made up of silicon steel and it houses rotor winding. v) Rotor winding. - It is made up of copper and insulated and its function is to produce retor current. vi) Air gap.