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1. Which of the following does not change in a transformer ?

- (a) Current
- (b) Voltage
- (c) Frequency
- (d) All of the above

Ans: c

2. In a transformer the energy is conveyed from primary to secondary

- (a) through cooling coil
- (b) through air
- (c) by the flux
- (d) none of the above

Ans: c

3. A transformer core is laminated to

- (a) reduce hysteresis loss
- (b) reduce eddy current losses
- (c) reduce copper losses
- (d) reduce all above losses

Ans: b

4. The degree of mechanical vibrations produced by the laminations of a transformer depends on

- (a) tightness of clamping
- (b) gauge of laminations
- (c) size of laminations
- (d) all of the above

Ans: d

5. The no-load current drawn by transformer is usually what per cent of the full-load current ?

- (a) 0.2 to 0.5 per cent
- (b) 2 to 5 per cent
- (c) 12 to 15 per cent
- (d) 20 to 30 per cent

Ans: b

6. The path of a magnetic flux in a transformer should have

- (a) high resistance
- (b) high reluctance
- (c) low resistance
- (d) low reluctance

Ans: d

7. No-load on a transformer is carried out to determine

- (a) copper loss
- (b) magnetising current
- (c) magnetising current and loss
- (d) efficiency of the transformer

Ans: c

8. The dielectric strength of transformer oil is expected to be

- (a) 1kV
- (b) 33 kV
- (c) 100 kV
- (d) 330 kV

Ans: b

9. Sumpner's test is conducted on trans-formers to determine

- (a) temperature
- (b) stray losses
- (c) all-day efficiency
- (d) none of the above

Ans: a

10. The permissible flux density in case of cold rolled grain oriented steel is around

- (a) 1.7 Wb/m²
- (b) 2.7 Wb/m²
- (c) 3.7 Wb/m²
- (d) 4.7 Wb/m²

Ans: a