[MAGNETIC CIRCUIT]

Assignment-1 (MCQs)

Q-1 While comparing magnetic & electric circuits, the flux of magnetic circuit is compared with which parameter of electrical circuit?

(A) emf
(B) current
(C) current density
(D) conductivity.

Q-2 The unit of magnetic flux is

(A) Henry
(B) Weber
(C) Ampere-turn/weber
(D) Ampere/meter

Q-3 Those materials are well suited for making permanent magnets which have ___ retentivity & ___ coercivity.

(A) Low, high
(B) High, high
(C) High low
(D) Low, low

Q-4 Those magnetic materials are best suited for making armature & transformer cores which have ___ permeability & ___ hysteresis loss.

(A) High, high
(B) Low, high
(C) High, Low
(D) Low, low

Q-5 Relative permeability of vacuum is ____.

(A) 1 (B) 1 H/m (C) $\frac{1}{4\pi}$ H/m (D) $4\pi \times 10^{-7}$ H/m

Q-6 In a magnetic material hysteresis loss takes place primarily due to,

(A) Rapid reversals of its magnetization
(B) Flux density lagging behind magnetizing force.
(C) Molecular friction.
(D) its high retentivity.

Q-7 permeability in a magnetic circuit corresponds to ____ in an electric circuit.

(A) Resistance
(B) Resistivity
(C) Conductivity
(D) Conductance

Q-8 Conductance is analogous to

(A) permeance
(B) Reluctance
(C) Flux
(D) Inductance

Q-9 Reciprocal of reluctance is

(A) Reluctivity
(B) permeance
(C) Permeability
(D) susceptibility.

Q-10 If the area of hysteresis loop of a material is large, the hysteresis loss in this material will be,

(A) zero (B) small (C) large (D) None