# KING FAHD UNIVERSITY OF PETROLEUM \& MINERALS <br> ELECTRICAL ENGINEERING DEPARTMENT <br> Dr. Ibrahim O. Habiballah <br> EE-360 <br> Key Solution <br> Quize \# 2 Serial \# <br> Name: <br> I.D.\# 

Circle the correct answer.

1) The ferromagnetic materials that are best suited for making the core of transformers and machines are those which have (...) permeance and (...) amount of eddy-current flows within the core.
a. high, high
b. low, high
c. low, low
d. high, low
2) A magnetic circuit has hysteresis loss of 100 W at rated voltage and frequency. If the frequency is reduced by $20 \%$ (assuming constant magnetic flux density), the hysteresis loss will be :
a. 64 W
b. 80 W
c. 100 W
d. 125 W
3) When a ferromagnetic material is excited from a DC source, and the source is removed, the material will have some (....)
a. fringing effect.
b. flux leakege.
c. flux intensity.
d. flux residual.
4) Although most of the flux produced by an excited coil in a ring core remains inside the core, there are small amount of the flux that do leave the core and known as
a. The fringing effect.
b. The flux leakege.
c. The flux intensity.
d. The flux residual.
5) The strength of the magnetic flux produced in a regtangular core made of a ferromagnetic material and warrped by a coil around one of its leg depends on
a. The type of the ferromagnetic material.
b. The shape of the core.
c. The magnetimotive force of the coil.
d. All of above.
