A study was conducted to know whether three groups of student football payers differs with respect to their six head measurements. Three group of students studies were high school football players (group 1), college football players (group 2), and nonfootball players (group 3). There were 30 subjects in each of three groups. The six variables are

WDIM = head width at widest dimension,

CIRCUM = head circumference,

FBEYE = front-to-back measurement at eye level,

EYEHD = eye-to-top-of-head measurement,

EARHD = ear-to-top-of-head measurement,

JAW = jaw width

Find the relative contribution of these six variables in discriminating the subjects in to these three groups and also get prediction equations that predicts a future subject group membership based on these six variables. What is the misclassification error of these predictions?