

Name: Key

EE435 Spring 2012 Quiz 01

1. Next to each biometric term on the left, write the letter corresponding to the most correct definition or example on the right.

Verification e

Identification h

Segmentation k

Feature extraction f

Template c

False accept a

False reject j

Enrollment b

Capture d

a Comparing Midn Yen's face to Midn Marion's and deciding they are the same person

b Collecting a sample image of someone's iris, converting it into a template, and storing it in a database of authorized users

c A compact digital representation of a biometric sample

d Record a sample of someone speaking

e Are you who you say you are?

f Determining the location, direction and type of the unique ridges in a fingerprint image

g Something you know

h Who are you?

i Intra-user variability

j Midn Hack attempts to use the iris system to enter the lab, but the system won't let him in

k Determining which pixels in an iris image are actually iris pixels

2. The best biometric is one that has both uniqueness and permanence. What does this mean? Give an example of a biometric that is not very unique or permanent.

unique - no 2 samples are identical. Can be used to tell one person from another

permanance - stable over a lifetime; doesn't change.

Gait, voice, etc.

Bonus: What country did Myanmar used to be?

Burma

Double bonus: What country is Ulan Bator the capital of?

Mongolia