Software Engineering COMP433 Tutorial -1- Good attributes of Software

Q#1) Which of the following systems, you would accept? Justify your Answer. a year. Critical system. :? NO, very Langeroues, mislead the nurses and doctors this such case must be more accurate. b) A bank security system that has a 95% reliability.

:? Not high Security systems any crash of error will and inform regard. innautautive c) A university registration system that requires 1 day of student training before regarding students are able to use it. :? No, it should be easily for all users money, time, and re money time, and resources, should be an exprecient d) A Palestinian banking system that serves a national bank and allows 1000 concurrent users to access the system :? No, not reliable, and needs more Scaliability, calculate grown for 10 years # of clients

e) A train station control system that needs 15 days of user training before administrators can use it? a cleptable, and not fine at the Same time trains better.

administrators can use it? a cleptable, and not fine at the Same time trains better.

may cause

f) A national pull system (انتخابات) that a reliability of 96%? كان , not efficient , problem with

ballack

of all

g) The failure frequency of a heart-monitoring unit that will operate in a hospital's intensive care ward is required to be less than one in 20 years. Its heart attack detection function is required to have a failure rate of less than one per million cases. Very good.

h) One requirement of the new software system to be installed in a supermarket will not fail, on average, more than 10 minutes per month during the supermarket's working hours. In addition, the probability that the off-time (the time needed for repair and recovery of all the supermarket services) be more than 30 minutes is required to be less than 0.5%. depends or the Size of the supermarket.

i) An HR (Human Resources Management) system that will be used by HR managers to manage employee information, hiring, on boarding, vacation management, reporting etc, that requires new users to be trained in 8 hours yes sine.

Q#2) If you were a consultant responsible of buying a system for your university to manage university student registration, and were offered the choice of two systems: A) The first system, is only \$100k to buy but requires \$1k for an annual system support cost. It requires 5 days training and comes with a new version every year.

STUDENTS-HUR Requires 3 days user training and is updated with a new version every 2 year. Ishald ashabat reliability and ask for a test In your opinion, which of the two systems has:

higher maintainability o

higher dependability

higher usability b