

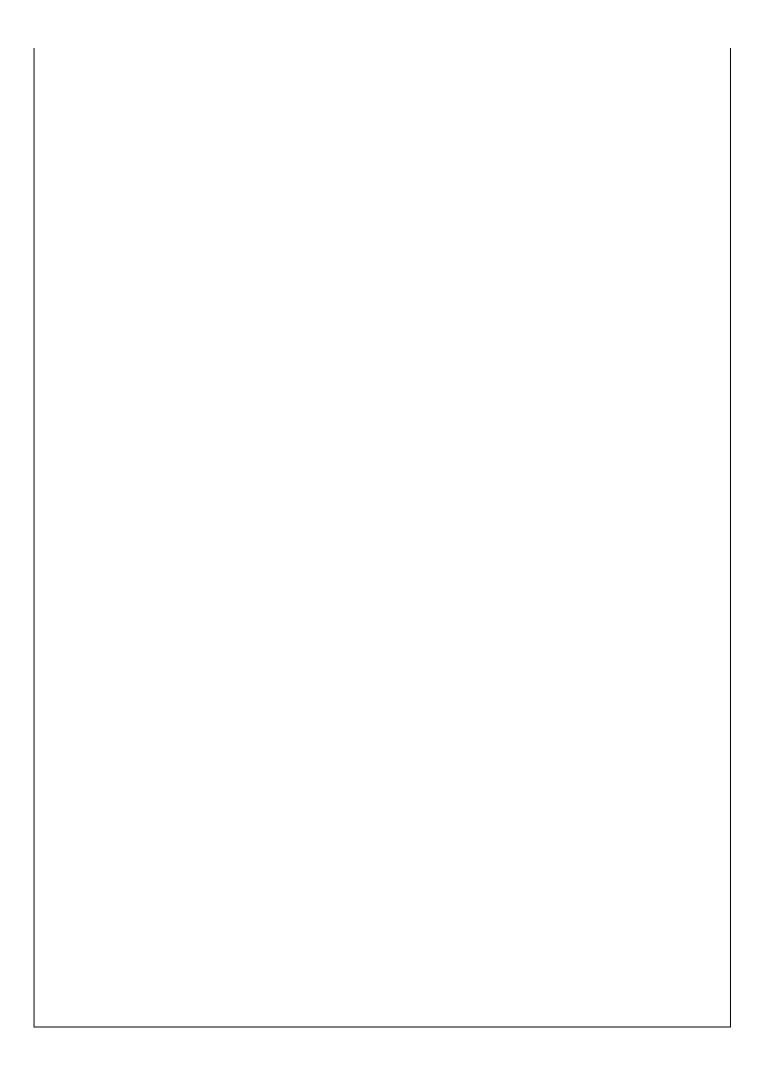
Academic Year 2021-22 Prof. Barbara PERNICI

Exam 23/6/2022 – Question 1 [11 points]

Total time 1.30 h

Exam A

Last name	
First name	
Matricola/Person code	
Signature	
It is necessary to answer at least	es or any other electronic device during the exam is forbidden. partially all the questions for a positive evaluation. ed, lists of bullet items are not sufficient to answer a question.
Question 1 [11 points]	
	to manage risks in a project according with traditional project management ne example of tools that could be used in each step.



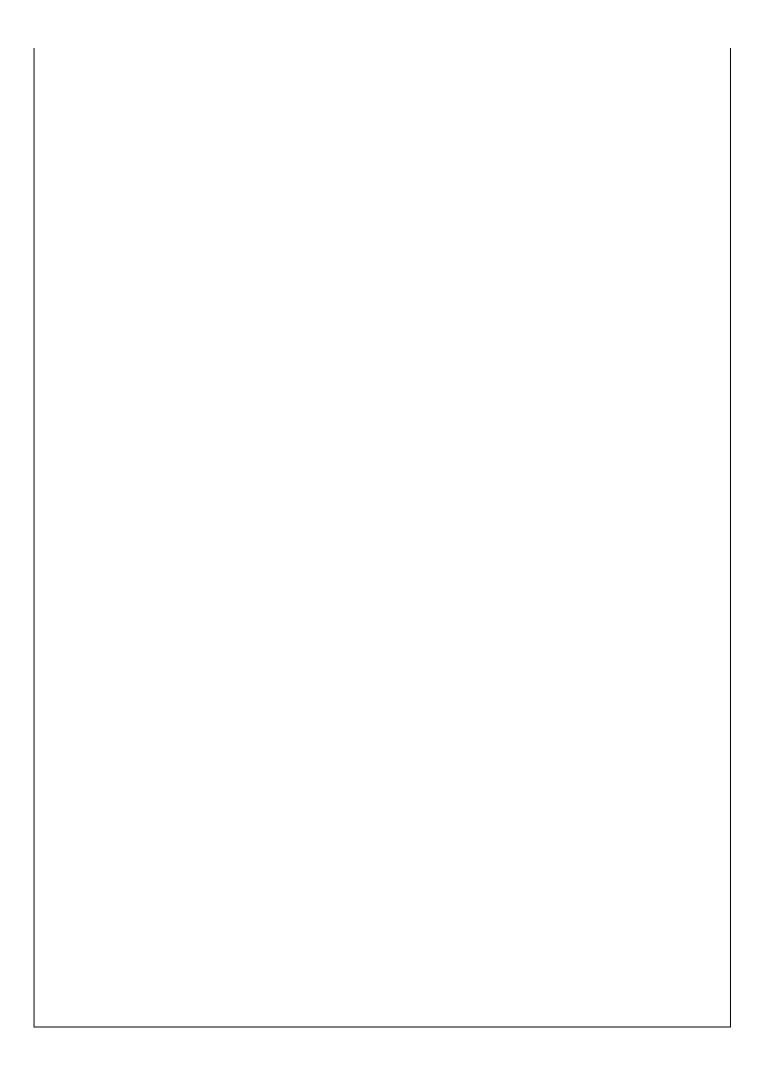


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Exam 23/6/2022- Question 2 [11 points]

Exam A

Last name First name	
Matricola/Person code Signature	
Question 2 [11 points]	
Discuss threats and attacks in a associated technologies.	an IT system and provide an overview of secure user management and





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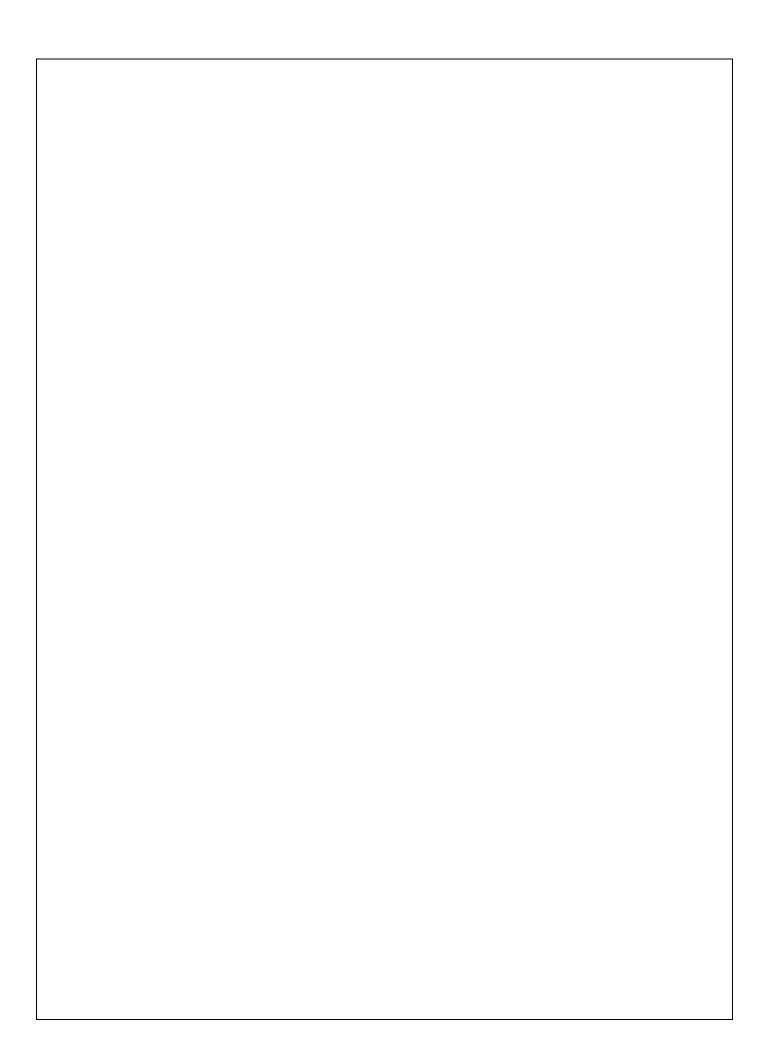
Exam 23/6/2022– Question 3 – Python [11 points]

Exam A

Last name				
First name				
Matricola/Person code				
Signature				
Consider the following fragmen	nt of Python code:			
import pandas as pd				
def my_selection(a, b): if a > b: return a elif a == b: if a % 2 == 0: return 20 else: return 13 else: return b				
table = {'A': [1, 2, 12], 'B': [4, 5, 6], 'C': [7, 8, 9]}				
df = pd.DataFrame(table)				
tmp = [max(df[c]) for c in df.cc]	olumns]			
array = list(df['A'] + df['B'] + d	f['C'])			
for i in range(len(tmp)):				

- 1. Provide a qualitative description step by step, in simple terms, of the program workflow.
- 2. Replace the built-in min function with a custom fuction that computes the minimum of a list of integer numbers.
- 3. Which are the differences between a set and a list data type?

print(my_selection(b=array[i], a=tmp[i]))





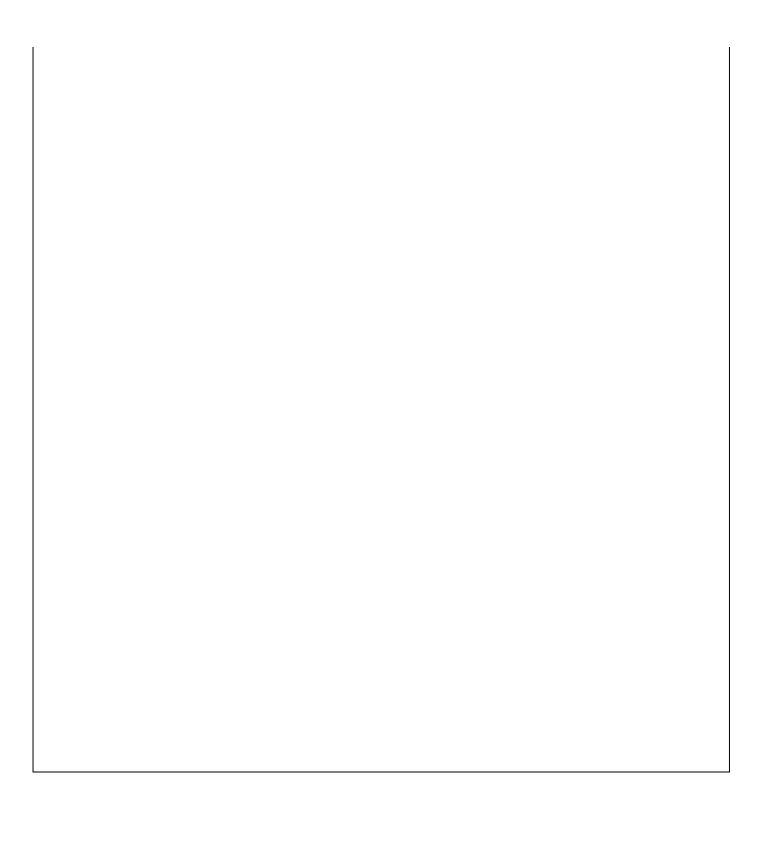
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Exam 23/6/2022 – Question 1 [11 points]

Total time 1.30 h

Exam B

Last name			
First name			
Matricola/Person code			
Signature			
Please remember that: - The exam is closed books - The use of cellular phone	s. s or any other electronic device during the exam is forbidden.		
	partially all the questions for a positive evaluation. ed, lists of bullet items are not sufficient to answer a question.		
Question 1 [11 points]			
Explain the main benefits related to Agile methodologies focusing on how uncertainty is managed compared with the traditional project management methodology.			



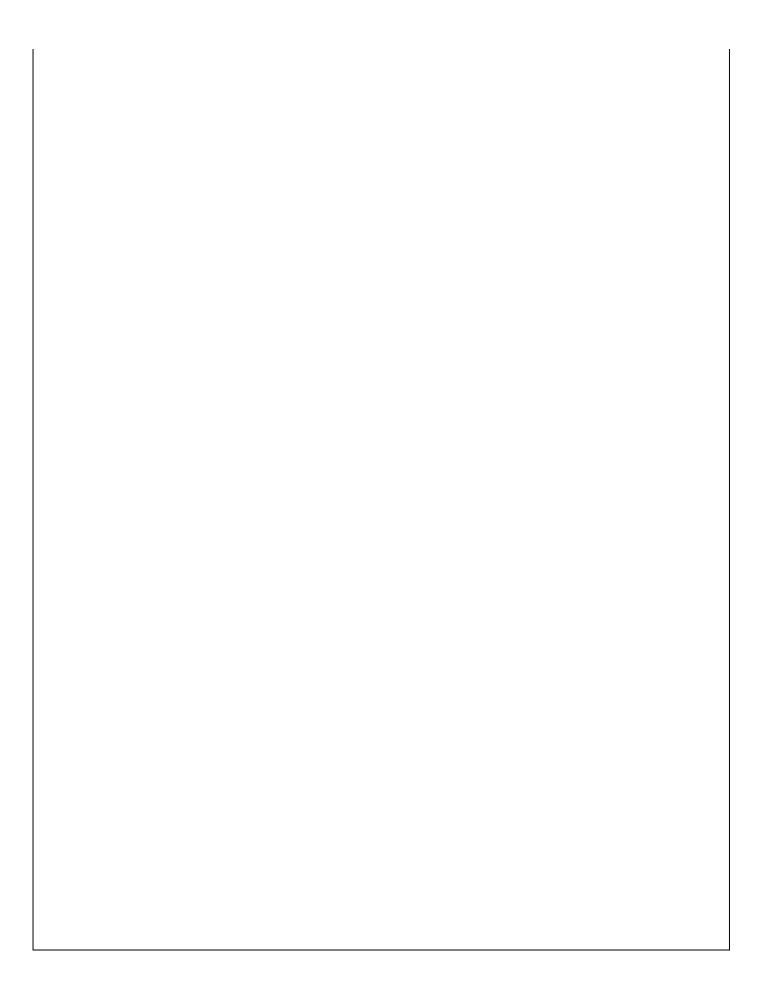


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Exam 23/6/2022- Question 2 [11 points]

Exam B

Last name First name	
Matricola/Person code	
Signature	
Question 2 [11 points]	
Define data quality dimensions techniques.	s and illustrate the data quality improvement process and profiling





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Exam 23/6/2022– Question 3 – Python [11 points]

Exam B

Last name	
First name	
Matricola/Person code	
Signature	
Consider the following fragmen	nt of Python code:
import pandas as pd	
table = {'A': [3, 4, 12], 'B': [1, 2 df = pd.DataFrame(table) tmp = [min(df[c]) for c in df.co array = list(df['C'] + df['B'] - d	olumns]
def my_selection(a, b): if a < b: return a elif a == b: if a % 2 != 0: return 20 else: return 13 else: return b	
for i in range(len(tmp)): print(my_selection(b=array	[i], a=tmp[i]))

- 1. Provide a qualitative description step by step, in simple terms, of the program workflow.
- 2. Replace the built-in min function with a custom fuction that computes the minimum of a list of integer numbers.
- 3. Which are the differences between a tuple and a list data type?

