

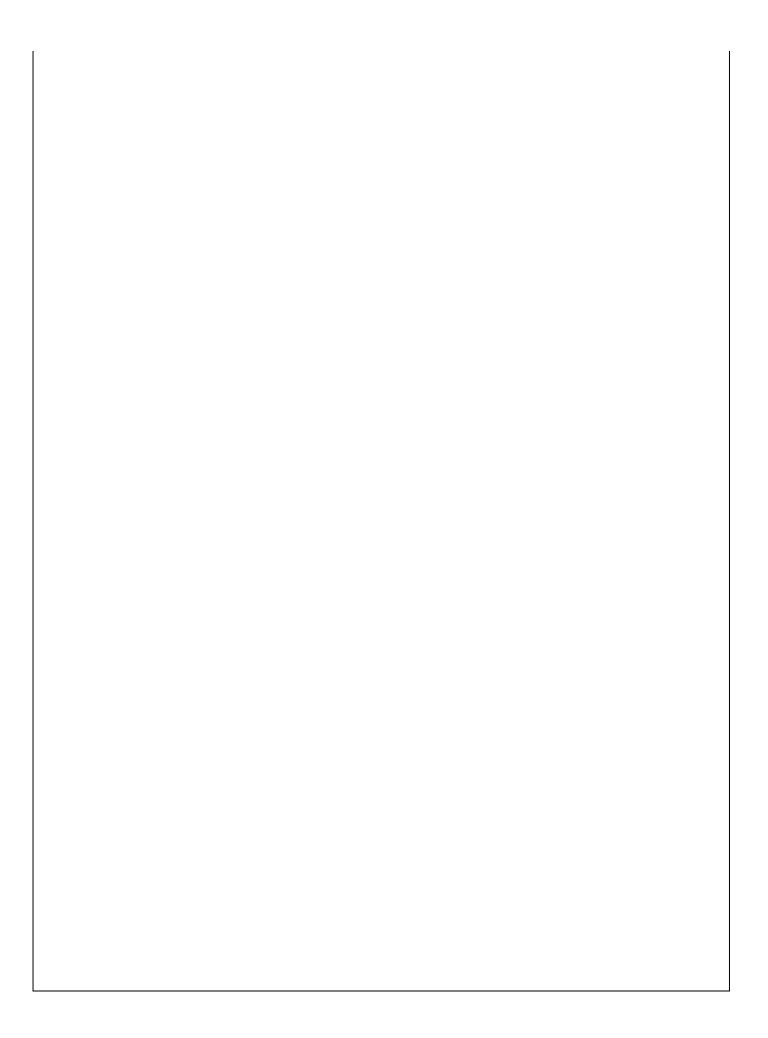
DIGITAL TECHNOLOGY

Academic Year 2021-22 Prof. Barbara PERNICI

Exam 15/2/2023 Total time 1.30 h

Question 1 [11 points]

Last name		
First name		
Matricola/Person code		
Matricola/Person code		
Signature		
Please remember that: - The exam is closed books The use of cellular phones or any other electronic device during the exam is forbidden. It is necessary to answer at least partially all the questions for a positive evaluation. Given answers should be explained, lists of bullet items are not sufficient to answer a question.		
Question 1 [11 points]		
Illustrate the meaning of SDG goals, targets and indicators.		





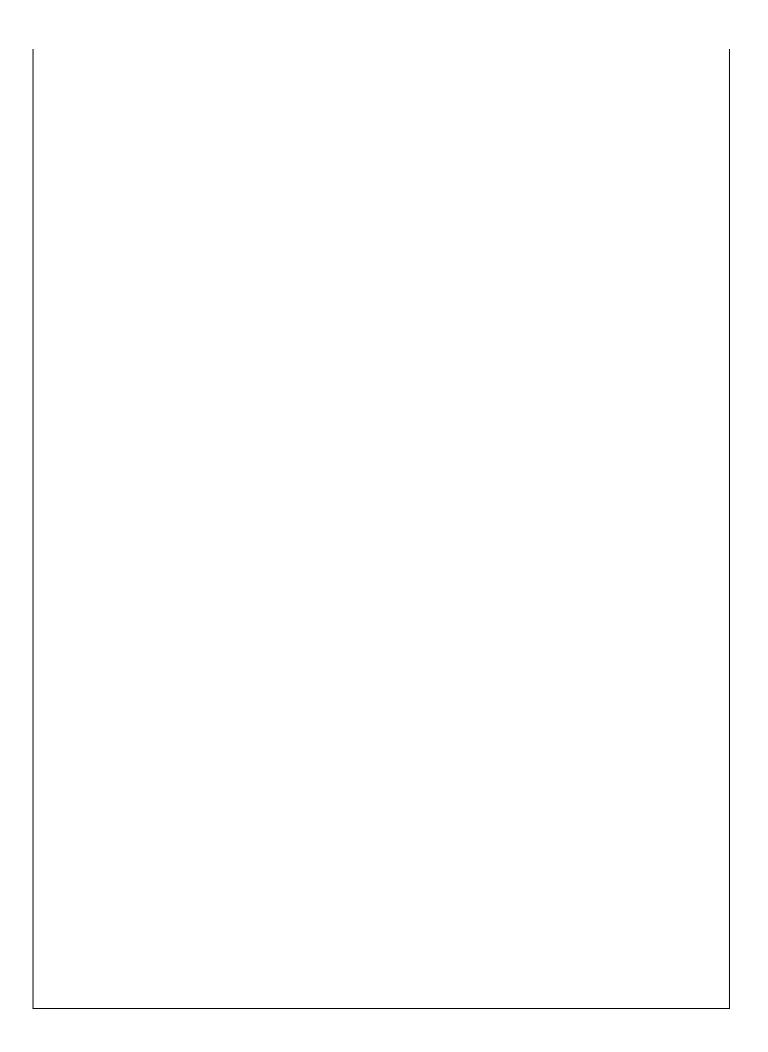
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Question 2 [11 points]

Last name	
First name	
Matricola/Person code	
Signature	
Question 2 [11 points]	
XXX	





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Question 3 – Python [11 points]

Last name First name Matricola/Person code Signature		
Consider the following fragment of Python code:		
a = {'A': [1, 2, 3], 'B': [4, 5, 6], 'C': [7, 8, 9]} b = {'B': [4, 3, 7], 'C': [4, 3, 1], 'D': [2, 6, 9]} tmp = {}		
<pre>s1 = set(a.keys()) s2 = set(b.keys())</pre>		
<pre>for k in s1.union(s2): if k in a and k in b: tmp[k] = a[k] + b[k] elif k in a: tmp[k] = a[k] else: tmp[k] = b[k]</pre>		
Then please answer the following questions:		
# 1. Provide a qualitative description step by step, in simple terms, of the program workflow.		
# 2. Implement a function that given a list and a value count how many times the value is in the list.		
# 3. Which are the characteristics and differences of a tuple and a list?		

