CFGDEGREE ⏻

FOUNDATION ASSESSMENT II MATERIAL RELEASE

THEORY QUESTIONS

SECTION	MARK
Theory Questions	31
Concept Questions	19
Python Challenge	25
SQL Challenge	25
TOTAL	**100**

Important notes:

- This document shares the first section of the Foundation Assessment II which is composed of 9 Theory Questions

- It is worth just under a third of your assessment mark

- You have 24 hours before the assessment to prepare.

- If any plagiarism is found in how you choose to answer a question you will receive a 0 and the instance will be recorded. Consequences will occur if this is a repeated offence. You can remind yourself of the plagiarism policy here.

Section 1: Theory Questions [31 marks]

1.1 What does SDLC stand for?	**1 mark**

1.2 What exception is thrown when you divide a number by 0?	**1 mark**

1.3 What is the git command that moves code from the local repository to the remote repository?	**1 mark**

1.4 What does NULL represent in a database?	**1 mark**

1.5 Name 2 responsibilities of the Scrum Master	**2 marks**

1.6 Name 2 debugging methods, and when you would use them.	**4 marks**

1.7 Looking at the following code, describe a case where this function would throw an error when called. Describe this case and talk about what exception handling you'll need.
 	
 ``python
def can_pay(price, cash_given):
    if cash_given >= price:
        return True
    else:
        return False
``
	5 marks

1.8 What is git branching? Explain how it is used in Git.	**6 marks**

1.9 Design a restaurant ordering system.
 You do not need to write code, but describe a high-level approach:
    a. Draw a list of key requirements
    b. What are your main considerations and problems?
    c. What components or tools would you potentially use?
	10 marks