

2019 Computing Sec 4 Paper 2 Prelim Marking Guide

Qn	Answer
1	B20: =COUNTA(A4:A18)
2	B21: =MAX(B4:B18)-MIN(B4:B18)
3	D4: =B4-C4 propagate for whole column
4	F4: =VLOOKUP(E4,\$E\$23:\$F\$26,2,FALSE) ----[1m] Propagate for whole column [1m]
5	H4: =PMT(F4/12, G4*12, D4, 0) ----[1m] Propagate for whole column [1m]
6	Correct LEFT function [1m] Correct IF function [1m] Propagate for whole column [1m] I4: =IF(LEFT(A4,6)="BrandA","Yes","No")
7a	if letter in ['a','e','i','o','u', 'A','E','I','O','U']:
7b	mytext = input('Enter your string: ')
	for letter in mytext:
7c	while len(mytext)>= 10: print ('String must be less than 10 characters') mytext = input('Enter your string again: ')
7d	print('Length of consonants: ', len(consonants))
8	2 marks: num = int(input('Number of words: ')) 1 for input, 1 for typecast 1 mark: for i in range(num):

9	<pre> negative = [] positives = [] zeros = [0] number = input("Enter an integer(enter q to quit): ") while number != "q": num = str(number) if num < 0: negatives.append(num) elif num >= 0: positives.append(number) else zeros += num number = input("Enter an integer(enter q to quit): ") print("The numbers were: ") for n in negatives: print(n) for z in zeros: print(z) for p in positives: print(positives[p]) </pre>
	<pre> negatives = [] </pre> OR changing all negatives to negative [still only 1 mark]
	<pre> zeros = [] </pre> OR changing zeros to empty string
	<pre> number = input("Enter an integer(enter q to quit): ") </pre>

	<code>while number != "q":</code>
	<code>num = int(number)</code>
	<code>elif num > 0:</code>
	<code>positives.append(num)</code>
	<code>else:</code>
	<code>zeros.append(num)</code> OR <code>zeros+=number</code> if zeros initialised as empty string
	<code>print(p)</code>
10	program: Input marks
	Validation marks 1 to 9
	Variables set up for input of data
	variables set up processing of data
	use of loops and/or lists for 5 students and 3 subjects
	correct calculation of student total and average marks
	correct calculation of total marks (1) and number of distinctions(1)
11	test: 8 lines of output, -1 for each line with error
	output matches stored program
12	extend: correct test for students who fail in each subject
	correct output, -1 for each line of error
13	Extend: entry of number of students
	correct loop control

