

Jurong West Secondary School

Preliminary Examinations 2018

COMPUTING

7155/02

Secondary Four Express	28 August 2018
Paper 2 Practical (Lab-based)	0800 – 1030
MARKING SCHEME	2 hour 30 minutes

MAXIMUM MARKS : 50

Task 1 [10 Marks]

Question	Answer	Marks
1	=RANDBETWEEN(1, 888)	

Question	Answer	Marks
2	=MID(C8,5,1)	
	=MID(C9,5,1)	
	=MID(C10,5,1)	
	=MID(C11,5,1)	
	=MID(C12,5,1)	
	=MID(C13,5,1)	
	=MID(C14,5,1)	
	=MID(C15,5,1)	
	=MID(C16,5,1)	
	=MID(C17,5,1)	

Question	Answer	Marks
3	=MAX(G8:G17)-MIN(G8:G17)	

Question	Answer	Marks
4	=COUNTIF(D8:D17,"F")	

Question	Answer	Marks
5	=VLOOKUP(E8,\$B\$26:\$D\$29,3,FALSE)	
	=VLOOKUP(E9,\$B\$26:\$D\$29,3,FALSE)	
	=VLOOKUP(E10,\$B\$26:\$D\$29,3,FALSE)	
	=VLOOKUP(E11,\$B\$26:\$D\$29,3,FALSE)	
	=VLOOKUP(E12,\$B\$26:\$D\$29,3,FALSE)	
	=VLOOKUP(E13,\$B\$26:\$D\$29,3,FALSE)	
	=VLOOKUP(E14,\$B\$26:\$D\$29,3,FALSE)	
	=VLOOKUP(E15,\$B\$26:\$D\$29,3,FALSE)	
	=VLOOKUP(E16,\$B\$26:\$D\$29,3,FALSE)	
	=VLOOKUP(E17,\$B\$26:\$D\$29,3,FALSE)	

Question	Answer	Marks
6	one mark for correct HLOOKUP formula, one mark for the rest	
	=HLOOKUP(G8,\$C\$20:\$E\$22,3,TRUE)*G8*F8	

Question	Answer	Marks
7	=SUM(H8:H17)	

Question	Answer	
8	one mark for correct BOOLEAN AND formula, one mark for the CONDITIONAL IF	
	=IF(AND(H22>190000, H20<8), "YES", "NO")	

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Question	Answer	Marks
9(a)	num_words = 3	
9(b)	string_total = ""	
	for ch in word:	
	if ch.isalpha():	
	string_total = string_total + ch	
	print("The concatenated alphabets in the word is", s)	
9(c)	while len(word)<=5:	
	word = input("Enter an alphanumeric word with more than 5 characters: ")	
10	num_words = int(input("Enter the number of words required: "))	

Task 3	(Program	Correction)	[10 Marks]
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Question	Answer	Marks
11	<pre>values = [] while True input_str = input("Enter integer, blank to end:) if input_str =_"": break values.prepend(int(input_str))</pre>	
	<pre>if len(Values) > 0: total = 0 index = 0 while index < len[values]: total = total + values[index] index += 1 average = total <u>*</u> len(values) elif: average = 0 print("The average of the given inputs is <u>{</u>".format(average))</pre>	
	Corrected Lines	
	input_str = input("Enter integer, blank to end; ")	
	if input str == "":	
_	values.append(int(input_str))	
	if len(values) > 0:	
Increase Indentation	_index = 0	
	while index < len <mark>(</mark> values <mark>)</mark> :	
	average = total / len(values)	
	else:	
	print("The average of the given inputs is { } ".format(average))	

Task 4 (Program Creation) [20 Marks]

Question	Answer	Marks
12	Program: input layers per shipment	
	Variable set up for average_per_layer	
	Variables set up and initialised accordingly for total and lists	
	Use of loops	
	Correct calculation of total eggs spoilt	
	Correct calculation of average rounded to nearest whole number	

	Answer	Marks
Question		
13	Test: ten lines of output (4) (-1 for each line with an error)	
	Output matches stored program	

	Answer	Marks
Question		
14	Correctly printing out layers that contain more than 19 eggs.	
	Output matches stored program	

	Answer	Marks
Question		
15	Extension of program to include any number of layers	