

Class/ Index Number	Centre Number/ 'O' Level Index Number	Name
/	/	



新加坡海星中学
MARIS STELLA HIGH SCHOOL
PRELIMINARY EXAMINATION
SECONDARY FOUR

COMPUTING

Paper 2 Practical (Lab-based)

7155/02

29 Aug 2019

2 hours 30 minutes

MARKING GUIDE

For Examiner's Use

50

This document consists of **5** printed pages.

Task 1

Question	Answer	Marks
1	=LEFT(A5,1) =LEFT(A6,1) =LEFT(A7,1) =LEFT(A8,1) =LEFT(A9,1) =LEFT(A10,1) =LEFT(A11,1) =LEFT(A12,1) =LEFT(A13,1) =LEFT(A14,1) =LEFT(A15,1) =LEFT(A16,1)	1

Question	Answer	Marks												
2	<table><tr><td>=HLOOKUP(B5,\$H\$21:\$K\$22,2,FALSE)</td></tr><tr><td>=HLOOKUP(B6,\$H\$21:\$K\$22,2,FALSE)</td></tr><tr><td>=HLOOKUP(B7,\$H\$21:\$K\$22,2,FALSE)</td></tr><tr><td>=HLOOKUP(B8,\$H\$21:\$K\$22,2,FALSE)</td></tr><tr><td>=HLOOKUP(B9,\$H\$21:\$K\$22,2,FALSE)</td></tr><tr><td>=HLOOKUP(B10,\$H\$21:\$K\$22,2,FALSE)</td></tr><tr><td>=HLOOKUP(B11,\$H\$21:\$K\$22,2,FALSE)</td></tr><tr><td>=HLOOKUP(B12,\$H\$21:\$K\$22,2,FALSE)</td></tr><tr><td>=HLOOKUP(B13,\$H\$21:\$K\$22,2,FALSE)</td></tr><tr><td>=HLOOKUP(B14,\$H\$21:\$K\$22,2,FALSE)</td></tr><tr><td>=HLOOKUP(B15,\$H\$21:\$K\$22,2,FALSE)</td></tr><tr><td>=HLOOKUP(B16,\$H\$21:\$K\$22,2,FALSE)</td></tr></table>	=HLOOKUP(B5,\$H\$21:\$K\$22,2,FALSE)	=HLOOKUP(B6,\$H\$21:\$K\$22,2,FALSE)	=HLOOKUP(B7,\$H\$21:\$K\$22,2,FALSE)	=HLOOKUP(B8,\$H\$21:\$K\$22,2,FALSE)	=HLOOKUP(B9,\$H\$21:\$K\$22,2,FALSE)	=HLOOKUP(B10,\$H\$21:\$K\$22,2,FALSE)	=HLOOKUP(B11,\$H\$21:\$K\$22,2,FALSE)	=HLOOKUP(B12,\$H\$21:\$K\$22,2,FALSE)	=HLOOKUP(B13,\$H\$21:\$K\$22,2,FALSE)	=HLOOKUP(B14,\$H\$21:\$K\$22,2,FALSE)	=HLOOKUP(B15,\$H\$21:\$K\$22,2,FALSE)	=HLOOKUP(B16,\$H\$21:\$K\$22,2,FALSE)	2
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=HLOOKUP(B16,\$H\$21:\$K\$22,2,FALSE)														

Question	Answer	Marks												
3	<table><tr><td>=VLOOKUP(E5,\$D\$21:\$E\$24,2,FALSE)</td></tr><tr><td>=VLOOKUP(E6,\$D\$21:\$E\$24,2,FALSE)</td></tr><tr><td>=VLOOKUP(E7,\$D\$21:\$E\$24,2,FALSE)</td></tr><tr><td>=VLOOKUP(E8,\$D\$21:\$E\$24,2,FALSE)</td></tr><tr><td>=VLOOKUP(E9,\$D\$21:\$E\$24,2,FALSE)</td></tr><tr><td>=VLOOKUP(E10,\$D\$21:\$E\$24,2,FALSE)</td></tr><tr><td>=VLOOKUP(E11,\$D\$21:\$E\$24,2,FALSE)</td></tr><tr><td>=VLOOKUP(E12,\$D\$21:\$E\$24,2,FALSE)</td></tr><tr><td>=VLOOKUP(E13,\$D\$21:\$E\$24,2,FALSE)</td></tr><tr><td>=VLOOKUP(E14,\$D\$21:\$E\$24,2,FALSE)</td></tr><tr><td>=VLOOKUP(E15,\$D\$21:\$E\$24,2,FALSE)</td></tr><tr><td>=VLOOKUP(E16,\$D\$21:\$E\$24,2,FALSE)</td></tr></table>	=VLOOKUP(E5,\$D\$21:\$E\$24,2,FALSE)	=VLOOKUP(E6,\$D\$21:\$E\$24,2,FALSE)	=VLOOKUP(E7,\$D\$21:\$E\$24,2,FALSE)	=VLOOKUP(E8,\$D\$21:\$E\$24,2,FALSE)	=VLOOKUP(E9,\$D\$21:\$E\$24,2,FALSE)	=VLOOKUP(E10,\$D\$21:\$E\$24,2,FALSE)	=VLOOKUP(E11,\$D\$21:\$E\$24,2,FALSE)	=VLOOKUP(E12,\$D\$21:\$E\$24,2,FALSE)	=VLOOKUP(E13,\$D\$21:\$E\$24,2,FALSE)	=VLOOKUP(E14,\$D\$21:\$E\$24,2,FALSE)	=VLOOKUP(E15,\$D\$21:\$E\$24,2,FALSE)	=VLOOKUP(E16,\$D\$21:\$E\$24,2,FALSE)	2
=VLOOKUP(E5,\$D\$21:\$E\$24,2,FALSE)														
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Question	Answer	Marks												
4	<table><tr><td>=ROUND(FV(F5/12,E5*12,0,D5,0),0)</td></tr><tr><td>=ROUND(FV(F6/12,E6*12,0,D6,0),0)</td></tr></table>	=ROUND(FV(F5/12,E5*12,0,D5,0),0)	=ROUND(FV(F6/12,E6*12,0,D6,0),0)	3										
=ROUND(FV(F5/12,E5*12,0,D5,0),0)														
=ROUND(FV(F6/12,E6*12,0,D6,0),0)														

	=ROUND(FV(F7/12,E7*12,0,D7,0),0)		
	=ROUND(FV(F8/12,E8*12,0,D8,0),0)		
	=ROUND(FV(F9/12,E9*12,0,D9,0),0)		
	=ROUND(FV(F10/12,E10*12,0,D10,0),0)		
	=ROUND(FV(F11/12,E11*12,0,D11,0),0)		
	=ROUND(FV(F12/12,E12*12,0,D12,0),0)		
	=ROUND(FV(F13/12,E13*12,0,D13,0),0)		
	=ROUND(FV(F14/12,E14*12,0,D14,0),0)		
	=ROUND(FV(F15/12,E15*12,0,D15,0),0)		
	=ROUND(FV(F16/12,E16*12,0,D16,0),0)		

Question	Answer	Marks												
5	<table><tr><td>=IF(AND(C5="Online",D5>45000),"YES","NO")</td></tr><tr><td>=IF(AND(C6="Online",D6>45000),"YES","NO")</td></tr><tr><td>=IF(AND(C7="Online",D7>45000),"YES","NO")</td></tr><tr><td>=IF(AND(C8="Online",D8>45000),"YES","NO")</td></tr><tr><td>=IF(AND(C9="Online",D9>45000),"YES","NO")</td></tr><tr><td>=IF(AND(C10="Online",D10>45000),"YES","NO")</td></tr><tr><td>=IF(AND(C11="Online",D11>45000),"YES","NO")</td></tr><tr><td>=IF(AND(C12="Online",D12>45000),"YES","NO")</td></tr><tr><td>=IF(AND(C13="Online",D13>45000),"YES","NO")</td></tr><tr><td>=IF(AND(C14="Online",D14>45000),"YES","NO")</td></tr><tr><td>=IF(AND(C15="Online",D15>45000),"YES","NO")</td></tr><tr><td>=IF(AND(C16="Online",D16>45000),"YES","NO")</td></tr></table>	=IF(AND(C5="Online",D5>45000),"YES","NO")	=IF(AND(C6="Online",D6>45000),"YES","NO")	=IF(AND(C7="Online",D7>45000),"YES","NO")	=IF(AND(C8="Online",D8>45000),"YES","NO")	=IF(AND(C9="Online",D9>45000),"YES","NO")	=IF(AND(C10="Online",D10>45000),"YES","NO")	=IF(AND(C11="Online",D11>45000),"YES","NO")	=IF(AND(C12="Online",D12>45000),"YES","NO")	=IF(AND(C13="Online",D13>45000),"YES","NO")	=IF(AND(C14="Online",D14>45000),"YES","NO")	=IF(AND(C15="Online",D15>45000),"YES","NO")	=IF(AND(C16="Online",D16>45000),"YES","NO")	2
=IF(AND(C5="Online",D5>45000),"YES","NO")														
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=IF(AND(C14="Online",D14>45000),"YES","NO")														
=IF(AND(C15="Online",D15>45000),"YES","NO")														
=IF(AND(C16="Online",D16>45000),"YES","NO")														

Task 2

Question	Answer	Marks
6 (a)	no_of_students = 36	
6 (b)	lightest = 140	
	if lightest > weight: lightest = weight	
	print("Lightest weight of the students is ", lightest)	
6 (c)	while (weight < 20 or weight > 140): weight = float(input("Please enter the weight of student in kg(between 20kg to 140kg): "))	

Question	Answer	Marks
7	no_of_students = int(input("Enter number of students in the class: "))	

Task 3

Question	Answer	Marks
8	customer = 1 data = input(("Enter details of customer: ")) date=data.split(",") age = int(data[1]) height = int(data[0])	

	<pre> while customer != 20 or not(age != 0 and height != 0): if age<5 or age>55 or height<130 or height>=180: print("Entry denied, you do not meet the requirements") else: print("Entry allowed. Please enjoy your ride.") customer = customer + 1 if customer == 5: break data = input ("Enter details of next customer: ") date=data.split(",") age = int(data[0]) height = int(data[1]) print("Please check safety belts of customers and get ready to start ride.") </pre>	
	corrected lines	
	<pre> input ("Enter details of customers: ") </pre> (changes: removed "(")	
	<pre> data=data.split(",") </pre> (changes: date to data) *	
	<pre> age = int(data[0]) height = int(data[1]) </pre>	
	<pre> while customer != 20 and not(age == 0 and height == 0): </pre> (Changed or to and & != to ==)	
	<pre> height>180 </pre>	
	<pre> if customer == 20 </pre>	
	<pre> data=data.split(",") </pre> (changes: date to data) *	
	<pre> print("Please check safety belts of customers and get ready to start ride.") </pre> (changes: added), deindent line)	

Task 4

Question	Answer	Marks
9	Input NRIC in format L0000000L	
	Correct format validation of input	
	Extract the 7 numbers	
	Variable set up and storing of weights in array	
	Correct calculation of weighted_sum (1) using a loop (1) to get through the numbered list	
	Correct setup (1) and calculation of the derived check sum (1)	
	Correct comparison of checksum	

	Appropriate variable names and readability of code	

Question	Answer	Marks
10	Test: four lines of output (3 times for 3 different input) (3) (-1 for each line with an error)	
	output matches stored program	

Question	Answer	Marks
11	Extend: Use of loop to repeat process	
	Loop condition to check for "q"	

Question	Answer	Marks
12	Extend: call for input for weights	
	check weights input is correct, 7 digits	
	loop to handle calculation of new weights	

-End of Paper-