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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 2018**

2 hours 30 minutes

# MARKING GUIDE

**For Examiner's Use**

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

## Task 1

Question	Answer	Marks										
1	<table><tr><td>=VLOOKUP(B4,\$F\$19:\$G\$21,2,FALSE)</td></tr><tr><td>=VLOOKUP(B5,\$F\$19:\$G\$21,2,FALSE)</td></tr><tr><td>=VLOOKUP(B6,\$F\$19:\$G\$21,2,FALSE)</td></tr><tr><td>=VLOOKUP(B7,\$F\$19:\$G\$21,2,FALSE)</td></tr><tr><td>=VLOOKUP(B8,\$F\$19:\$G\$21,2,FALSE)</td></tr><tr><td>=VLOOKUP(B9,\$F\$19:\$G\$21,2,FALSE)</td></tr><tr><td>=VLOOKUP(B10,\$F\$19:\$G\$21,2,FALSE)</td></tr><tr><td>=VLOOKUP(B11,\$F\$19:\$G\$21,2,FALSE)</td></tr><tr><td>=VLOOKUP(B12,\$F\$19:\$G\$21,2,FALSE)</td></tr><tr><td>=VLOOKUP(B13,\$F\$19:\$G\$21,2,FALSE)</td></tr></table>	=VLOOKUP(B4,\$F\$19:\$G\$21,2,FALSE)	=VLOOKUP(B5,\$F\$19:\$G\$21,2,FALSE)	=VLOOKUP(B6,\$F\$19:\$G\$21,2,FALSE)	=VLOOKUP(B7,\$F\$19:\$G\$21,2,FALSE)	=VLOOKUP(B8,\$F\$19:\$G\$21,2,FALSE)	=VLOOKUP(B9,\$F\$19:\$G\$21,2,FALSE)	=VLOOKUP(B10,\$F\$19:\$G\$21,2,FALSE)	=VLOOKUP(B11,\$F\$19:\$G\$21,2,FALSE)	=VLOOKUP(B12,\$F\$19:\$G\$21,2,FALSE)	=VLOOKUP(B13,\$F\$19:\$G\$21,2,FALSE)	
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Question	Answer	Marks										
2	<table><tr><td>=C4*D4</td></tr><tr><td>=C5*D5</td></tr><tr><td>=C6*D6</td></tr><tr><td>=C7*D7</td></tr><tr><td>=C8*D8</td></tr><tr><td>=C9*D9</td></tr><tr><td>=C10*D10</td></tr><tr><td>=C11*D11</td></tr><tr><td>=C12*D12</td></tr><tr><td>=C13*D13</td></tr></table>	=C4*D4	=C5*D5	=C6*D6	=C7*D7	=C8*D8	=C9*D9	=C10*D10	=C11*D11	=C12*D12	=C13*D13	
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=C11*D11												
=C12*D12												
=C13*D13												

Question	Answer	Marks
3	=SUM(E4:E13)	

Question	Answer	Marks
4	=SUMIF(B4:B13,A20,C4:C13)	

Question	Answer	Marks
5	=PMT(B5,B4*12,B3,0,0)	

Question	Answer	Marks
6	=E4*E5*E6	

Question	Answer	Marks
7	=SUM(B4:B6,E7)	

Question	Answer	Marks
8	=IF(B10<0,"Loss",IF(B10=0,"Break Even","Profit"))	

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Question	Answer	Marks				
9	<p><b>Check for the following two cells:</b></p> <table><tr><td>Total profits per Month</td><td>\$ -</td></tr><tr><td>Students per Class</td><td>15.65950278</td></tr></table>	Total profits per Month	\$ -	Students per Class	15.65950278	
Total profits per Month	\$ -					
Students per Class	15.65950278					

**Task 2**

Question	Answer	Marks
10 (a)	no_of_students = 36	
10 (b)	shortest = 2.85 if shortest > height: shortest = height print("Shortest height of student is ", shortest)	
10 (c)	while height < 1.2 or height > 2.85:	
	height = float(input("Re-enter the height of student in metres(m)between 1.2 to 2.85 : "))	

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

## Task 3

Question	Answer	Marks
12	<pre> negative = [] positives = [] zeros = ""  number = input("Enter an integer(enter q to quit): ") while number &lt;= "q":     num = str(number)      if num &lt; 0:         negatives.append(num)     elif num &gt;= 0:         positives.append(num)     else         zeros += num      number = input("Enter an integer(enter q to quit): ")  print("The numbers were: ")  for n in negatives:     print(negatives[n]) for z in zeros:     print(zeros[z]) for p in positives:     print(positives[p]) </pre>	
	corrected lines	
	negatives = []	
	zeros = []	
	number = input("Enter an integer(enter q to quit): ")	
	while number != "q":	
	num = int(number)	
	elif num > 0:	
	else:	
	zeros.append(num)	
	number = input("Enter an integer(enter q to quit): ")	
	print(n)	
	print(z)	
	print(p)	

**Task 4**

Question	Answer	Marks
13	Input ISBN in format 000-0-000-00000-0	
	Convert input to list of 13 numbers	
	Variable set up for <b>weighted_sum</b>	
	Variable set up and initialization of <b>weight</b>	
	Correct calculation of <b>weighted_sum</b> (1) using a loop (1) to get through the numbered list	
	Correct setup (1) and calculation of the derived <b>check digit</b> (1)	
	Correct comparison of <b>check digit</b>	
	Correct format validation of input	

Question	Answer	Marks
14	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
15	Extend: Use of loop to repeat process	
	Loop condition to check for "q"	

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

**-End of Paper-**