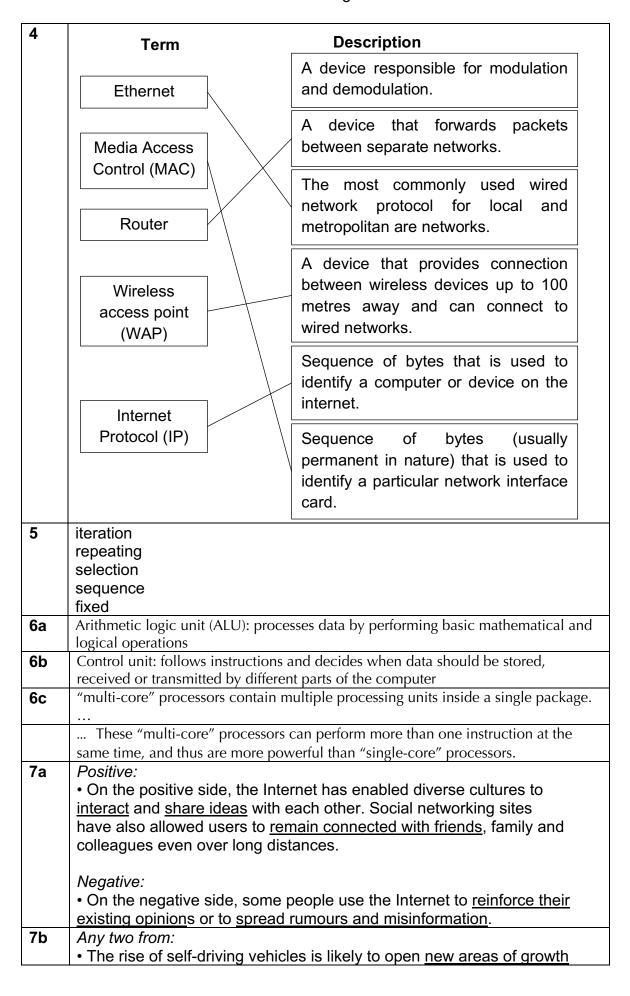
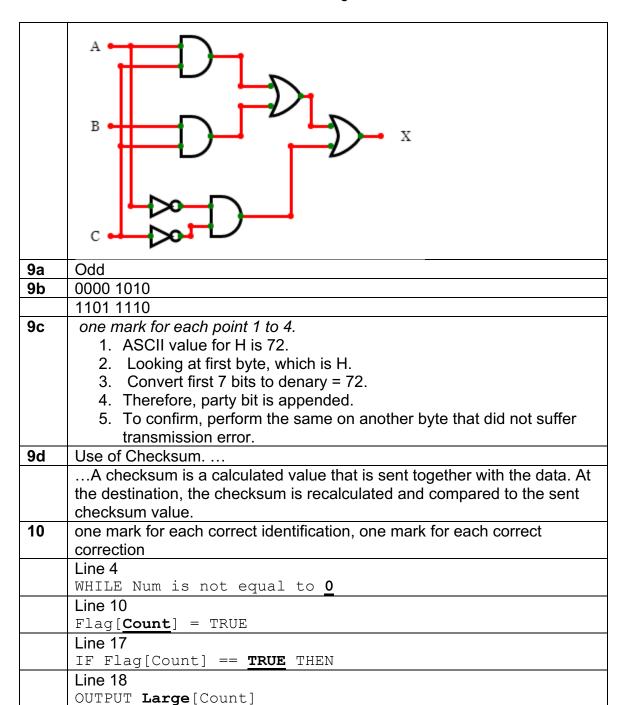
## 2019 Computing Sec 4 Prelim Paper 1 Marking Guide

Qn	Answer & Marking Guide
1a	A1: Text
	B1: Currency
	B2: Percentage
1bi	Correct formula and arguments
	=PMT(\$B\$2/12, \$B\$3, \$B\$1)
1bii	Correct formula and arguments
	=SUM(D8:D11)
1biii	Correct formula and arguments, accept arguments from other columns
	=COUNT(C8:C11)
2ai	One mark for correct answer, one mark for correct working.
	1001 1011
2aii	One mark for correct answer, one mark for correct working.
	BE
2aiii	One mark for correct answer, one mark for correct working.
	205
2b	As memory dumps are usually large,
	the hexadecimal number system is ideal for displaying bytes in a
	compact manner.

GrpA	GrpB	X	Count	Check	Outpu
[]	0	2	1		
[2, ]		3	2	1	
[2,3]		4	1		
			3	1	
	[4]	5	2	0	
			4	1	
			3	2	
			2	1	
[2,3,5]		6	1		
			5	1	
			4	2	
	[4,6]	7	3	0	
			6	1	
			5	2	
			4	3	
			3	1	
			2	1	
[2,3,5,7]		8	1		
			7	1	
			6	2	
			5	3	
	[4,6,8]	0	4	0	
					[2,3,5,7
					[4,6,8]



Г											
	selike	f-dri ly re here	ving evol e are	g ca lutio e als	dustry. Singapore is one of the first countries where rs are being tested, and if successful, the technology nise the motor industry. so multiple new companies that offer on-demand ridestions. These developments have led to sweeping						
	changes in the taxi service industry as well as employment										
	opportunities for taxi drivers.										
	• M	app	ing	tecl	nnology is also another area of growth with an increas	sed					
	foc	us (	on n	naki	ng 3D maps and geospatial data more accessible and	b					
	use	eful	to tr	ave	llers.						
7c					ble for <u>robots to replace humans</u> in providing certain k	inds					
				are?							
				-	ole to transfer private medical information over						
	the	Inte	erne	<u>et?</u>							
	Also accept other suitable answers										
8ai	NO		ccep	טנ טנ	rier suitable answers						
8aii	AN										
8bi			ark	for e	each term separated by OR						
	X =				C OR BAND C OR NOT A AND NOT C, or						
	X =				C OR BANDC OR A NORC						
8bii	one	e ma	ark	for e	every two correct rows						
		Α	В	С	Working Space	X					
		^	Ъ	C		^					
		0	0	0		1					
		0	0	1		0					
		0	1	0		1					
		0	1	1		1					
		1	0	0		0					
		1	0	1		1					
		1	1	0		0					
		1	1	1		1					
		1	l	1		1					
8biii	one	e ma	ark t	for A	AC sub-circuit						
	one mark for BC sub-circuit										
	one mark for NOT A and NOT C										
				_	use of two OR to collate results						



```
11
      Input two numbers
      Checking for smaller of the two...
      ...Correct initialization of loop counter
      Use of Loop...
      with correct management for correct number of iterations
     Check for factor(\% = 0)...
   - ...with correct use of AND or otherwise
     Output result
Sample Algo:
INPUT x, y
IF x > y THEN
  Check = y
ELSE
  Check = x
WHILE Check > 0
  IF x % Check = 0 AND y % Check THEN
    OUTPUT Check
     Check = 0
  ENDIF
  Check = Check - 1
ENDWHILE
```