Copyright Disclaimer: All materials used in these free 6-a-day resources are taken from past OCR GCSE Computing Exams – The OCR exam board owns the copyright for these exam questions – questions have been used with their permission

The questions on this worksheet have been taken from the 2018 OCR GCSE Computer Science Paper 2

6-A-Day – Computer Science GCSE (p2.10-2016)

Q1	Convert the binary number 10110101 to its hexadecimal equivalent.
	[2]
Q2	Show the effect of a binary shift right of two places on the binary number 00110100.
	[1]
Q3	
	Describe a shift that can be used to double the value of the binary number 00100100 .
	[2]
	[4]

Copyright Disclaimer: All materials used in these free 6-a-day resources are taken from past OCR GCSE Computing Exams – The OCR exam board owns the copyright for these exam questions – questions have been used with their permission

The questions on this worksheet have been taken from the 2018 OCR GCSE Computer Science Paper 2

	1						
Q4							
	The lower case ASCII code for a character can be found by adding 0100000 to the upper case version.						
		Charact	er ASCII cod	e			
		R	101001				
		r	111001	0			
		A	10000	1			
		а					
		E	100010	1			
		е					
		L	Fig. 3				
	[2]						
Q5	(ii) Com	pare the use of ASCII a	nd Extended ASCII to r	anresent characters			
du	(ii) Compare the use of ASCII and Extended ASCII to represent characters.						
					[2]		
Q6	A	n infinite loop is where a sect	ion of a program repeats ind	efinitely.			
) For each of the pseudoo	code algorithms shown belo	-	to show		
whether they will loop infinitely or not.							
		Pseudocode	Will loop infinitely	Will not loop infinitely			
		02 while True 03 print x					
		04 endwhile 01 $x = 0$					
		02 while x < 10 03 print x					
		04 endwhile 01 $x = 0$					
		02 while x < 10 03 print x					
		$\begin{array}{ccc} 04 & x = x + 1 \\ 05 & \text{endwhile} \end{array}$					
		01 $y = 5$ 02 for x = 1 to y					
		03 print x 04 next					
					[4]		