## HIGHER COMPUTING SCIENCE

Due Tuesday 3/11/2015

	green and 8 bits for blue, I	e 24 dits per pixel. How big is the file?	(2)
10)	A digital photo is 2592 x 1944 and uses RGB colour 8 bits for red, 8 bits for		or
9)	How many colours can be represented using a colour depth of 16 bits?		(1)
8)	Calculate the size in bytes of a bit map $4 \times 3$ inch using 72 dots per inch ar with a colour depth of 1 bit.		nd <b>(3)</b>
7)	What are the two codes called which are used to store text? ( How many bits are used to store a character in each code?		(2)
6)	What determines the accuracy of a number in this notation?		(1)
5)	What determines the range of numbers in this notation? What is the range of numbers that can be stored using 8 bits for this?		(2)
4)	What is the name of the notation by which computers store real numbers?(1)		
3)	Convert the following nega a) -3 b) -35	ative numbers to 8 bit two's complement b)-15 d)-127	(4)
2)	Covert the following decima) 134	al numbers to binary b) 148	(2)
1)	Convert the following bina a) 1110110	ry numbers to decimal b) 0110110	(2)

20 marks