Grade 10 | Number System | Essay Paper

1.	Convert the binary 11010101 ₂ to the equivalent octal number. Show your steps.	(2015)
2.	In the ASCII code, the letter A is represented as decimal 65. Determine the binary representation	n of the letter D. (2015)
3.	Convert the Hexadecimal number E9 to the equivalent octal number. Show the relevant steps.	(2016)
4.	Convert the binary number 1101110011002 to Octal. Show steps in your calculation.	(2017)
5.	Convert hexadecimal number 752 ₁₆ to binary. Show steps in your calculation.	(2017)
6.	Assume that 4 bits per pixel arc used to represent a colour in a colour representation system. Ho different from each other can be represented in this system?	w many colours (2017)
7.	If character 'm' is represented in the ASCII table as 109_{10} write down the binary representation using 7 bits for each character.	of the word 'no' (2018)
8.	How many different colours can be represented if 10 bits per pixel (bpp) is used as colour depth in a	in image? (2018)
9.	Convert 1260 ₁₀ to its octal equivalent.	(2019)
10.	Convert A1 ₁₆ to its binary equivalent.	(2019)
11.	Convert the octal number 867 ₈ to its binary equivalent. Show the major steps of your calculation.	(2020)
12.	If 1011010 ₂ represents character 'Z' in ASCII code, what is the ASCII code for character 'X'?	(2020)