Question NO 1:

If we have 7-bit memory location, then tell

i) How many unsigned numbers it can represent?
Answer: $2^n = 2^7$

ii) How many signed numbers it can represent?
Answer: $2^n = 2^7$

iii) What would be the range for unsigned numbers?
Range for unsigned:
$0,\ldots\ldots\ldots\ldots,2^n-1$

iv) What would be the range in case of signed numbers?
$-2^{(n-1)},..,0,\ldots\ldots\ldots\ldots,2^{n-1}-1$

v) Specify the minimum and maximum value in case of unsigned numbers?
Minimum = 0 & maximum = $2^n-1=2^7-1$

vi) Specify the minimum and maximum in case of signed numbers?
minimum = $-2^{n-1}=2^{7-1}=-2^6$
maximum = $+2^{n-1}-1=2^{7-1}-1=+2^6-1$