	Date Paga No.
*	[EISIM]-7 22 bit 32 bit 9 excess 100 256
	· (13.875) (0 -> (1101.111) => .1101111182
	10000010001101111000 - 32 = 8 digit
	82378000H Amp \$\frac{1}{5} + 3 = 8 digit
	* Floating point Representation Part 3
	* Range  Ly Normalized -> .1  De normalize -> .0
	ISIE IM
	2 excess 128
	I fo then Dinosmalized else
	* .
	7. 7.0

largest + Ve number

0 11111111 M \* Normalized ·111111 \* 2<sup>255-128</sup> · 11111111 \* 2127 => (1-2-7) \* 2120 11111111 \* +20 2120 Smallest - ve number  $- \frac{255 - 128}{-0.1111111 + 32^{127}} = (1-2^{-7}) + 2^{127}$   $- 127 + 120^{120}$ · Smallest + repormalized number !-0 00000000 10000000 V +ve 01\*20-128 to 1 x 2-128 1= x 1x 2-129 2-124 Aug

	Page No.:
	o largest -re 8 normalized number
	1 0000 0000 1000000
	- 01 * 2 0-128
	- 01 * 9 -128 - 2 -129 Am
*	Denosmalized number  o largest +ve denormalized number
	0 1111111 0 1111111
	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	phthyth * 12 pry  111111 * 2120
	63 x 2120 Aug
	o Smallest - Ve denormalized number
	400163 × 2/20 Au
	· Smallest the normalized number
	0 0000000 000001
	+ .0000001 * 2
	$9^{-7} \times 9^{-128}$ $9^{-135}$ $9$ $9$ $1 \times 72$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$
	2 ✓ The Good Paper

· largest - re denormalized number -2-135 AU By default number will be in normalized form because there are very less chances of denormalized number Note . 81 EIM]\_77 Pexcess 128 (3.5)10 -> Convert into normalized form 1101 >> Binary oll \* 22 => Normalized number Note Rule > After point number Should be '0' in obnormalized form ·111 x2=> Normalized number many form [ · 0111 \* 23 => denormalized number · af denorm- 001118 \* 24 - 4 ·000111 \* 25 \_\_\_\_ 4 number ·0/11 \* 23 => 0/00000110111000