0.2	What do you Understand by Floating point representation? Explain with the help of Example.
	floating point
	Explain 1949 to representation?
	with the help of Example
Anx (	Representation of floating point in number is not unique.
233	number so floating point
	Agr angueble of unique.
	for example, the number
1 1014	$55.66$ can be represented as $5.566 \times 10^{1}$ , $0.5566 \times 10^{2}$
	$a_1$ $5.566 \times 10^{1}$ $0.5566 \times 10^{2}$
	- COMO
	The fraction part can be normalization form there is mali and
	normalized. In the normalization
	form, there is only a
	Single non- zero drast belone
	form, there is only a single non-zero digit before the radix form.
30	
	Alpatina - bont mular
Vi .	Floating - point numbers have two advantages over integers. First, they can represent
3 -	Figure thousand and entegers.
	the represent
,	with faction between interport
	Second, because of scaling
	factor, they can represent
	a much greater range
	a much greater range
- 57	wanthan a merina
117.	floating point notation is
	essentially the same or
	scientific notations only-translated
	scientific notations, only translated to binary. There are three fields: the sign
	frolds: -the evan

11811 Page No. 06 1150 some seguresentations enponen (TEEE a Significant (mantissa Explain the register transfer language. Register Transfer Language (RTI In symbolic notation, it is used to describe the micro-operations transfer among registers. is a kind of intermediate as that which is used The term "Register Transfer" can perform micro-operations and Transfer the result of operation to the same or other register.

Date:

	Micro-operations:
	The operation executed on the
	data stored in registers are
	called micro-operations. They
	are detailed low-level
-	instructions used in some
	designs to implement complex
	machine Enstructions.
	Les Layer of Althoractic Misson.
	Register Transfer:
	The information transformed from
	one reogster to another is
	sepresented in symbolic form
	by replacement operation is
	called Register Transfer.
	Register Replacement Operator:
T	In the statement, R2 <- R1,
	<- acts as a replacement.
	operator. This statement defines.
	the Asamsey of control of
	register R1 into register R2.
	register ve
	The state of the s
-	
-	
-	Le print him lair and the print

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\$. <b>@</b>	Write the short note:
(a)	
An	In general, the Azidhmetic Micro-operations deals with the
	Micro-operations deals with the operations performed on numeric data stored in the registers.
	The basic Arithmetic Micro- operations are classified in the
*000 4 )	following eadegories:  1). Additions
	2). Subtraction 3). Increment
-	4). Decrement 5). Shift
	Some additional Arithmetic Micro- operations are classified as:
	1). Add with carry 2). Subtract with borrow
	2). Transfer/ Load, etc.
Ans(b)	Logic Moro-Operations:
	Logic Micro-operation specify binary

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	operations on the strings of
	the strings of bits in
	registers. The others can
	be created from combination of
	these. The hardware
1	implementation of logic micro
. 1 ( ,	operations requires the insertion
	of the most important
JI's d	gates like AND, OR, EXOR,
gjæ!	and NOT for each
	bit or pair of bits in
	the registers.
Ang C	Shift Micro-operations:
	Shift Micro-operations are those
	micro-operations that are used.
	for serial transfer of
	information. These are also
10	used in conjuction with arithmetic micro-operation, logical
	arithmetic micro-offeration, logical
	micro-operation, and other
	data-processing operations.
*	There are those - hoper of
	There are three -types of shifts micro-operations:
<b>D</b> .	Logical: It transfers the
	O zero through the
1	0 , 0
FREEDMAN	

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	serial enput. We use the
	symbols she for logical
	shift -left and she for
	serial enput. We use the symbols she for logical shift -left and shr for shift -right.
	In Logical Shift left, shift
<b>_</b>	$\frac{1}{2}$
,	to the left one by one. The Empty least significant bit (LSB) is filled with zero
- 1100	The Empty least significant
·	bit (LSB) is filled with zero
	( see the lessal input) and
·	the most significant bit
	the most significant both.  (MSB) to rejected.
J	
	MSB (left logical Shift) LSB
	(color say)
	1. 0.1. 12.0 0 1 140
	R R R R R R R R
	0 0 0 1 1 0
	and the second s
<u>, 2).</u>	In Right - Shift (Logical), one
	position moves each bot to
<b>-</b>	the right one by one and
-	the least significant bit
	(SB) to rejected and the
	position moves each both to the right one by one and the least significant bit (SB) so rejected and the empty (MSB) is filled with
	Jero.

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	MSB (Right Logical Shift) LSB
0-	> 1 0 1 1 0 0 1 1 0 1 0 1 1 0 0 1
	Arithmetic: This micro-operation shifts a significant signed broary number to the left or to the right possition.  In the arithmetic shift-left, it multiplies a signed binary number by 2 and In an arithmetic shift-raght it divides to the number by 2.
	Left Arithmatic Shift:  In this, one position moves each bit to the left one by one. The empty least significant bit (LSR) is filled with zero and the most significant bit (MSR) is rejected.  Same as the Reft Logical Shift.

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	MSB (left Arithmatic)  MSB Shift USB
(2)	Right Asithmatic Shift :
7301	In this, one position moves each bit to the right one by one and the least significant bit is rejected and the empty MSB is filled with the value of the previous (MSB).
\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	MSB (Right Arithmetic Shift) LSD
	Circular The circular shift circulates the bits in the sequence of the register

Date: Page No. the both ends information Circular Shift (left Circular Shift) MSB LSB Right Circular Shift = MSB (Right Circular Shift) 1. 0 0 of Basic Enplain with compuder ? the black dagram below diagram (control control arithmatic

Date: Date Page No. Page Nu logic unit (ALV) combinely called as certral Processing Unit (CPU). Block Diagrami - Control -Asithmetic and Logic Unit Main. Memory Auxilliary Storage The Processing Unit (CPU) :computer system major calculation and inside the CPU and it is also sexponsible for activation and controlling of other unit

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	frimary storage is not able to store data permanently
	for feverie use So some
	other types of storage
	technology is required to
	technology is required to  storage the data permanently  for the long time,
	or auxilary Aorage.
	Total Light.
	-
4	Total