

## Rudra The Practical School Worksheet - 1 (Lesson 1) Sub - Computer

Class: 7 <sup>th</sup>	Date - Div :
Q1) Fill in the Blanks.	
1. The binary number system uses only two digits: 0 and	d 1.
2. The base of the decimal number system is	
3. The hexadecimal number system includes the digits 0-9 and the letters	gast gapt
4. The number of unique digits in the octal number system is	*
5. In the binary number system, the weight of the rightmost digit is always	1
6. To convert a decimal number to binary, divide the number by	repeatedly.
7. Each position in a number system has a weight which is a power of its	ose
Q2) True or False.	
1. The decimal number system is also called the base-8 number system.	False
2. The binary system is widely used in digital computers.	True
3. The value of a digit in any number does not depend on its position.	False
4. 5 is a valid digit in the binary number system.	False
5. The base of the hexadecimal number system is 16.	True
6. Aryabhata introduced the concept of zero.	True
7. The octal number system uses digits from 0 to 9.	False
Q3) Answer in One Word.	
1. What is the base of the binary number system?	2
2. How many unique digits are there in the decimal system?	10
3. What number system is used by computers?	Binany
4. What is the least significant digit in a number called?	LSB
5. What is the highest digit in the octal number system?	#Temporal
6. What is the base of the hexadecimal system?	16
7. What is the place value of the digit at position 3 in the decimal system?	100
Q4) Multiple Choice Questions (MCQs)  Which of the following is not a valid digit in the octal number system?	12.9

c) 5

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2. The base of the bir	nary number system	is:	
a) 10	_b) 2	c) 8	d) 16
3. What is the base o	f the hexadecimal n	umber system?	
a) 8	b) 10	c) 12	<u>d) 16</u>
4. In the number 685	, what is the place v	value of digit 6 in the decim	al system?
a) 6	b) 60	(e) 600	d) 6000
5. Which digit alway	s has the weight 0 i	n place value?	
a) Middle digit	b) Leftmost	digit c) Rightmos	st digitd) None
Q5) One Line Ansv	vers.		
1. Which number sy	stem uses both digi	ts and letters?	
Ans-Hexad	ecimal nu	imber syst	em uses both
_digits_	& lette	15.	
2. How many symb	ols are used in the b	inary system?	
Ans - 2 51	mbols c	ere used in	the binary
- System			
3. What is the value	of 24 in binary plac	ce value?	
Ans-The	value of	24 in bin	ary place value
15 16.			
4. What method is	used to convert dec	imal to binary?	
Ans-The n	nethod u	sed to conv	vert decimal to
binary is	5 repeat	ed division	hu o
5. Name the Indian			
Ans- Arya			
Q6) Solve the foll	owing.		
1) 10111 + 11	2) 11101-10	0   0   3) 101010 ÷ 10	101010101
	owing into binary		4) 101111 * 111
	2) (139) <sub>10</sub>		
		3) (41)8 \00001	
11000000716	ERA		200=7=70