

ATOMIC ENERGY CENTRAL SCHOOL , ANUPURAM

TOPIC : COMPUTER ORGANISATION

SUB TOPIC: Number System

WORKSHEET 3 (Module 3)

Sub: Computer Science

Class : XI

1. The left most digit is also known as _____ .
2. Hexadecimal number 'C' represents the number ____ in binary.
3. Every octal digit represents a group of ____ bits.
4. Hexadecimal number 13 represents ____.
5. Base of the number system is also known as ____ .
6. Convert number $(1025)_{10}$ into binary, octal and hexadecimal.
7. Find the hexadecimal equivalent of $(420)_{10}$.
8. Convert the following binary numbers to decimal
(a)1010 (b) 111000 (c) 10101111 (d) 10110
9. Convert the following Decimal numbers to binary.
(a) 23 (b) 100 (c) 161 (d) 145
10. Do the following conversions.
 - i. $(127.75)_{10} = ()_2$
 - ii. $(160.14)_8 = ()_{10}$
 - iii. $(1000)_{10} = ()_2$
 - iv. $(24.375)_{10} = ()_8$
 - v. $(347.23)_8 = ()_{10}$
 - vi. $(136.75)_{10} = ()_2$
 - vii. $(1101011110100.001111)_2 = ()_{10}$
 - viii. $(1001101.0101)_2 = ()_{10}$
 - ix. $(270)_8 = ()_{10} = ()_{16}$
 - x. $(AB.CD)_{16} = ()_{10}$
