

ATOMIC ENERGY CENTRAL SCHOOL , ANUPURAM

TOPIC : COMPUTER ORGANISATION

SUB TOPIC: Number System

WORKSHEET 4 (Module 4)

Sub: Computer Science

Class : XI

1. _____ is a universally coding standard adopted by all new platforms.
2. ISCII stands for _____ .
3. Every hexadecimal number can be represented by _____ bits.
4. What is Unicode? How is it significant?
5. Distinguish between ASCII and ISCII.
6. Add the binary numbers (a) 110001 and 101101 (b) 11110 and 1001
7. What is the use of encoding schemes?
8. Do the following conversions.
 - i. $(5AF)_{16} = (\quad)_8$
 - ii. $(24.375)_8 = (\quad)_{16}$
 - iii. $(1001101.0101)_2 = (\quad)_8$
 - iv. $(347.23)_8 = (\quad)_{10}$
 - v. $(136.75)_{10} = (\quad)_2$
 - vi. $(1001101.0101)_2 = (\quad)_8$
 - vii. $(270)_8 = (\quad)_2 = (\quad)_{16}$
 - viii. $(CAFE)_{16} = (\quad)_2$
 - ix. $(11010111101.00111)_2 = (\quad)_{16}$
 - x. $(1111000.0001111)_2 = (\quad)_8$
9. Find the hexadecimal equivalent of $(420)_8$.
10. Convert $(101101010)_2$ to Hexadecimal and octal
