GLS UNIVERSITY

Faculty Of Computer Applications & Information Technology

SUBJECT: 1601101 Introduction to Information Technology Integrated MSc(IT) Sem – I Theory Assignment – III

I Perform the following Conversions
1. $(2584)_{10} = (\underline{})_2 = (\underline{})_8 = (\underline{})_{16}$
2. $(458)_{10} = (\underline{})_2 = (\underline{})_8 = (\underline{})_{16}$
3. $(112)_{10} = (\underline{})_2 = (\underline{})_{16}$
4. $(745)_8 = (\underline{})_2 = (\underline{})_{10} = (\underline{})_{16}$
5. $(152)_8 = (\underline{})_2 = (\underline{})_{10} = (\underline{})_{16}$
6. $(101101)_2 = (\underline{})_{10} = (\underline{})_{16}$
7. $(156)_{10} = (\underline{})_2 = (\underline{})_8 = (\underline{})_{16}$
8. $(8023)_{10} = (\underline{})_2 = (\underline{})_8 = (\underline{})_{16}$
9. $(105)_{10} = ()_2 = ()_8 = ()_{16}$
10. $(110110)_2 = (\underline{})_{10} = (\underline{})_{16}$
11. $(110011001010)_2 = (\underline{})_{10} = (\underline{})_{16}$
12. $(101010)_2 = (\underline{})_{10} = (\underline{})_{16}$
13. $(254)_8 = (\underline{})_{10} = (\underline{})_{16}$
14. $(AB6)_{16} = (\underline{})_{10} = (\underline{})_{2}$
15. $(D6)_{16} = (\underline{})_{10} = (\underline{})_{8} = (\underline{})_{2}$
16. $(365)_8 = (\underline{})_{10} = (\underline{})_{16}$
17. $(7165)_8 = (\underline{})_{10} = (\underline{})_{16}$
18. $(EEDD)_{16} = (\underline{})_{10} = (\underline{})_{2}$
19. $(5444)_8 = (\underline{})_{10} = (\underline{})_{16} = (\underline{})_2$
20. $(12AF)_{16} = (\underline{})_{10} = (\underline{})_{20}$
II Perform the following Conversions:
1. $(1011.0101)_2 = (\underline{})_{10} = (\underline{})_{16}$
2. $(11011001.111011)_2 = (\underline{})_{10} = (\underline{})_{16}$
3. $(1023.335)_{10} = ()_{16} = ()_{8} = ()_{2}$
4. $(3566.123)_{10} = (\underline{})_{16} = (\underline{})_{16} = (\underline{})_{2}$
5. $(654.55)_8 = (\underline{})_{10} = (\underline{})_{16} = (\underline{})_2$
6. $(2215.33)_8 = (\phantom{00000000000000000000000000000000000$
7. $(A5.B)_{16} = (\underline{})_{10} = (\underline{})_{2}$
8. $(3D.FF)_{16} = ()_{10} = ()_{8} = ()_{2}$
III Fill in the Blanks:
1. The group of symbols is called as a
2. The digital data is represented, stored and transmitted as group of binary bits called
3. Binary Codes are suitable for the communications.
4. The binary code is represented by the as well as
5. In code, each decimal digit is represented by a 4-bit binary number.
6. In the BCD, with four bits we can represent s sixteen numbers.
7. BCD is similar to decimal system. (True/ False)
8. The addition and subtraction of BCD have same rules. (True/ False)
9. BCD is more efficient than binary. (True/ False)
10. BCD needs more number of bits than binary to represent the decimal number. (True/ False)
11. ASCII is a bit code.
12. ASCII consist of symbols.
13. New version of ASCII is known as
14 is a 16 bit universal character coding standard.
15. Unicode is used to represent
16. Unicode is capable of representing approximately characters.

17. The first 100 characters of Unicode and ASCII are same. (True/ False)
18. Unicode is that it is compatible with ASCII. (True/ False)
19. A is defined as a set of values to represent quantity.
20. The number system consists of different symbols that are used to represent numbers
21. Roman number system is an example of number system.
22. The is defined as the total number of digits available in the number system
23. Base is also known as
24. Full Form of BCD is
25. Full Form of ASCII is
26. Full Form of EBCDIC is

Write Base and Digits of Following number systems: Decimal Number System Octal Number System Hexa Number System Binary Number System