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Chapter 01 ODM CONNECT HOMEWORK.

- 1- What is Number system, what are the different number system used?
- 2- what are the rules to convert a Decimal number into a Binary number?
- 3- Briefly explain the Octal Number system.
- 4- What do you understand by Hexadecimal Number system?

Answer

- 1- A number system is a set of values to represent quantities.
The different number system used are :-
 - i) Decimal Number system
 - ii) Binary Number system
 - iii) Octal Number system
 - iv) Hexadecimal Number system.

- 2-
 - i) Divide the decimal number with base 2.
 - ii) Write the remainder and again divide with base 2.
 - iii) Repeat (step 2) till we receive quotient as zero.

3- The Octal Number system consists of 8 digits - 0, 1, 2, 3, 4, 5, 6, 7. Its base is 8.

Example - $(317)_8$ and $(345)_8$

4- Hexadecimal Number system consists of 16 digits - 0 to 9 and letter A-F that represents decimal number - 10 to 15.

As :-

0

1

2

3

4

5

6

7

8

9

Decimal

(A) 10

(B) 11

(C) 12

(D) 13

(E) 14

(F) 15

Hex

Hexadecimal