

Unit 01 - Number System

1. What is a Number system? (Marks 02)

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2. Name 3 main types of number systems. (Marks 06)

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3. Mention 3 types of data given by human to computer. (Marks 06)

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4. What are the 3 functions of computer? (Marks 06)

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5. Expand and write the following decimal numbers. Show only the first three numbers in a counting frame. (Marks 4 x 5 = 20)

- i. 385_{10}
- ii. 541_{10}
- iii. 1247_{10}
- iv. 2547_{10}
- v. 58142_{10}

6. Represent and expand the following binary numbers in a counting frame.

(Marks 4 x 5 = 20)

- i. 110_2
- ii. 10011_2
- iii. 11011_2
- iv. 101110_2
- v. 11011_2

7. Convert the following decimal numbers to binary numbers.

(Marks 4 x 5 = 20)

- i. 58_{10}
- ii. 99_{10}
- iii. 125_{10}
- iv. 358_{10}
- v. 5891_{10}

8. Convert the following binary numbers to decimal numbers.

(Marks 4 x 5 = 20)

- i. 101_2
- ii. 1111_2
- iii. 101101_2
- iv. 101101_2
- v. 1110001_2