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Describing the major part components, relate related with computers organization system and their key features.

Organization of Computer system —

- ① Input Unit
- ② Output Unit
- ③ Storage Unit

① input Unit

- It accepts instructions and data from outside world.
- It converts these instruction and data in computer acceptable form.
- It supplies the converted instructions and data to the computer system for further processing.

② Output Unit

- It accepts the result produced by the computer, which are in coded form and hence, cannot be easily understood by us.
- It converts these coded result to human acceptable form.
- It supplies the converted result to outside world.

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Storage Unit

- Data and instructions required for processing
- Intermediate result of processing
- Final result of processing, before they are released to an output device.

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Q. Sto. $(542)_5 = (?)_6$

Step 1: Convert the original number to a decimal number base(10).

Step 2: Convert the decimal number to the new base 6.

Convert from base(5) to (10) $= (542)_5 = (5 \times 5^2) + (4 \times 5) + (2 \times 5^0)$
= $5 \times 25 + 20 + 2$
 $= 125 + 20 + 2$
 $= 147_{(10)}$

Convert $147_{(10)}$ to base (6)

Remainders

$$\begin{array}{r} 147 \\ 6 \overline{)147} \\ 14 \\ \hline 0 \end{array}$$

Hence, $147_{(10)} = 403_6$

So, $(542)_5 = (147)_{10} = (403)_6$

Thus, $(542)_5 = (403)_6$

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Step 1: Divide the decimal numbers to be converted by the value of the new base.

Step 2: Record the remainder from step 1 as the rightmost digit of the new base.

Step 3: Divide the quotient of the previous divide by the new base.

Step 4: Record the remainder from step 3 as the next digit of the new base number.

Given, $(862)_{10} = (?)_8$ (Quotient + Remainder)

$$8 \overline{)862} \quad \text{Remainders}$$

$$\begin{array}{r} 8 \\ 8 \overline{)107} \\ 8 \quad \downarrow \\ 13 \\ 8 \overline{)13} \\ 8 \quad \downarrow \\ 5 \\ 8 \overline{)5} \\ 8 \quad \downarrow \\ 1 \\ 8 \overline{)1} \\ 8 \quad \downarrow \\ 1 \end{array}$$

$$\text{So, } (862)_{10} = (1536)_8 = (1536)_8 = (1536)_8 = (1536)_8$$

$$(1536)_8 = (1536)_8 = (1536)_8 = (1536)_8$$