$$
6^{\text {th }} \text { Class }
$$

> Mathematics: Ans: (A)
The predecessor of 0 is -1
But -1 is not a whole number
Therefore whole number 0 has no predecessor
Physics: Ans: (A)
Chemistry: Ans: (A)
$>$ Biology: Ans: (D)
$7^{\text {th }}$ Class
$>$ Mathematics:Ans: (D)
Physics: Ans: (A)
$>$ Chemistry: Ans: (D)
$>$ Biology: Ans: (D)
$8^{\text {th }}$ class
> Mathematics: Ans: (A)

$$
\begin{array}{ll}
5^{23}+5^{23}+5^{23}+5^{23}+5^{23}=5 x \\
\Rightarrow 5 \times\left(5^{23}\right)=5 x & \\
\Rightarrow 5^{1} \times 5^{23}=5 x & {\left[a^{m} \times a^{n}=a^{m+n}\right]} \\
\Rightarrow 5^{24}=5^{x} & \\
\Rightarrow x=24 & {\left[\because a^{m}=a^{n}(a \neq 0,1) \Rightarrow m=n\right]}
\end{array}
$$

Thus, the value of x is 24 .
The correct answer is A .

Physics: Ans : (D)
$>$ Chemistry: Ans: (C)
$\mathrm{Mg}+2 \mathrm{H}_{2} \mathrm{O} \rightarrow \mathrm{Mg}(\mathrm{OH})_{2}+\mathrm{H}_{2} \uparrow \mathrm{LiH}+\mathrm{H}_{2} \mathrm{O} \rightarrow \mathrm{LiOH}+\mathrm{H}_{2} \uparrow$
Biology: Ans: (C)

## $9^{\text {th }}$ Class

$>$ Mathematics : Ans : (D)
$\angle B A C=50^{\circ}$
$\left[A B \perp D F\right.$ and $\angle A E F=140^{\circ}$ ]
$\therefore \angle A B C=70^{\circ} \quad[\because \angle A B C, \angle B A C$ and $\angle A C B$ are in a triangle $]$

## Physics: Ans : (A)

## Chemistry: Ans: (C)

## Biology: Ans: (B)

$10^{\text {th }}$ class
> Mathematics: Ans: (C)
Let the present ages of John and Jamie be x years and y years respectively

$$
\therefore \frac{x}{y}=\frac{3}{4} \quad x=\frac{3}{4} y
$$

After 5 years, their respective ages will be $(x+5)$ years and $(y+5)$ years.
$\therefore \frac{x+5}{y+5}=\frac{4}{5}$
$5 \mathrm{x}+25=4 \mathrm{y}+20$
$5 \mathrm{x}+5=4 \mathrm{y}$
Putting the value of x from (1)
$5 \times \frac{3}{4} y+5=4 y$
$4 y-\frac{15}{4}=5$
$\frac{y}{4}=5 \quad y=20$
Thus Jamie's present age is 20 years.
Physics: Ans: (C)
Chemistry: Ans: (C)
Biology: Ans: (D)
Reasoning : Ans: (A)
Effective length covered in $1 \mathrm{~min}=5-2=3 \mathrm{~m}$
First $30 \mathrm{~m}=3 \mathrm{~m} \times 10 \mathrm{~min}$
Seconds $5 \mathrm{~m}=5 \mathrm{~m} \times 1 \mathrm{~min}$
$\therefore$ Overall time taken by monkey is 11 min

