$6^{\text {th }}$ Class
> Mathematics: Ans: (B)
Prime numbers between 60 and 100 are $61,67,71,73,79,83,89$ and 97.
$\therefore$ Number of primes between 60 and $100=8$.
Physics: Ans: (C)
> Chemistry: Ans: (D)
The horizontal lines in the modern periodic table are called PERIOD.
Biology: Ans: (D)
$7^{\text {th }}$ Class
> Mathematics:Ans:(D)
$\frac{p^{4}}{q^{2}} \times \frac{x}{y}=\frac{81}{16} \Rightarrow \frac{p^{4}}{q^{2}} \times \frac{x}{x}=\frac{81}{16} \Rightarrow \frac{p^{4}}{q^{2}} \times 1=\frac{3^{4}}{4^{2}} \Rightarrow \frac{p}{q}=\frac{3}{4}=0.75$
> Physics: Ans: (D)
$>$ Chemistry: Ans: (B)
$>$ Biology: Ans: (D)
$8^{\text {th }}$ class
> Mathematics: Ans: (C)
Let the original number be $x$. Then, $\frac{3}{4} x+19=x \Rightarrow 3 x+76=4 x \Rightarrow x=76$.
Physics: Ans : (B)
$>$ Chemistry: Ans: (D)
Critical temperature of water is more than $\mathrm{O}_{2}$ due to its dipole moment
$\left(\right.$ Dipole moment of water $=1.84 \mathrm{D}$; Dipole moment of $\mathrm{O}_{2}=$ zero D$)$
> Biology: Ans: (B)

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

$>$ Mathematics: Ans : (C)
In $\triangle A C T$,
$\angle C A T+\angle A T C+\angle A C T=180$
$36+\angle A T C+\angle A T C=180$
$2 \angle A T C=144$
$\angle A T C=72$
$\angle R T C=\frac{72}{2}=36$
Now focusing on the smaller $\triangle R T C$,
$\angle R T C+\angle T C R+\angle C R T=180$
$36+\angle A C T+\angle C R T=180$
$36+\angle A T C+\angle C R T=180$
$36+72+\angle C R T=180$
$\angle C R T=72^{\circ}$,
Physics: Ans : (D)
> Chemistry: Ans: (A)
$>$ Biology: Ans: (B)
$10^{\text {th }}$ class
> Mathematics: Ans: (C)
Let $f(x)=6 x^{2}+a x-4$ and $g(x)=b x^{2}-11 x+3 \mathrm{mn}$
Also $2 x-1$ is a factor of both $f(x)$ and $g(x)$
$f\left(\frac{1}{2}\right)=0 \Rightarrow a=5$
$g\left(\frac{1}{2}\right)=0 \Rightarrow b=10$
Physics: Ans: (B)
$>$ Chemistry: Ans: (B)
The decomposition of silver chloride is a photochemical reaction, i.e., using sunlight.
Biology: Ans: (A)
Reasoning : Ans: (B)
In 'artist' and 'artificial', artificial will come first on the basis of fifth letter

