$6^{\text {th }}$ Class
> Mathematics: Ans: (D)
Any non zero number divided by 0 is not defined
> Physics: Ans: (B)
> Chemistry: Ans: (A)
> Biology: Ans: (A)
$7^{\text {th }}$ Class
> Mathematics: Ans : (A)
$x^{2}+\frac{1}{x^{2}}=51$
$\left(x-\frac{1}{x}\right)^{2}+2=51$
$\left(x-\frac{1}{x}\right)^{2}=51-2=49$
$x-\frac{1}{x}= \pm 7$
$x^{3}-\frac{1}{x^{3}}=\left(x-\frac{1}{x}\right)\left(x^{2}+\frac{1}{x^{2}}+1\right)$
$= \pm 7(51+1)= \pm 364$
> Physics: Ans: (B)
$>$ Chemistry: Ans: (A)
Biology: Ans: (C)
$8^{\text {th }}$ class
> Mathematics: Ans: (C)
$x^{\frac{3}{4}}+y^{\frac{5}{2}}=\left(x^{\frac{1}{4}}\right)^{3}+\left(y^{\frac{1}{2}}\right)^{5}=4^{3}+3^{5}=64+243=307$
> Physics: Ans: (A)
$>$ Chemistry: Ans: (C)
Ice is a poor conductor of heat (a good thermal insulator) and its density is less than water.
Biology: Ans: (B)
$9^{\text {th }}$ Class
$>$ Mathematics : Ans: (D)
We are not given the nature side FG.
$\because$ We cannot find the angle $\angle$ FGE
Physics: Ans : (D)

## Chemistry: Ans: (A)

Biology: Ans: (A)
$10^{\text {th }}$ class
> Mathematics: Ans: (C)
The given equations are :
$x-3 y=7$
$3 x-3 y=15$ $\qquad$
$x+k y=3$ $\qquad$
Subtracting equation (1) from equation (2):
$2 \mathrm{x}=8 \Rightarrow \mathrm{x}=4$
Substituting $x=4$ in equation (1) :
$4-3 y=7 \Rightarrow 3 y=4-7 \Rightarrow y=-1$
$\therefore(4,-1)$ is the solution of the equations (1) and (2)
It is given that equations (1), (2) and (3) have a common solution.
$\therefore(4,-1)$ is also a solution of equation (3)
$\therefore(4,-1)$ satisfies equation (3)
$\therefore 4+\mathrm{k}(-1)=3 \Rightarrow 4-\mathrm{k}=3 \Rightarrow \mathrm{k}=1$
Thus, the value of k is 1 .
Physics: Ans: (D)
Colour blindness is a genetic disease and still cannot be cured.
$\Rightarrow$ Chemistry: Ans: (A)
Biology: Ans: (D)
Reasoning : Ans: (A)
$3 \mathrm{yr}=52 \times 3=156$ weeks
3 months $=52 \times \frac{1}{4}=13$ weeks
$\therefore$ Total weeks in 3 yr and 3 months $=156+13=169$ weeks

