$\qquad$
The sum of coefficients of integral powers
of $x$ in the binomial expansion of
$(1-2 \sqrt{x})^{50}$ is.

$$
\begin{aligned}
&(1-2 \sqrt{x})^{50} \\
& \text { general term }={ }^{50} C_{r}\left(-2 x^{1 / 2}\right)^{r} \\
&={ }^{50} C_{r}(-2)^{r} x^{r / 2}
\end{aligned}
$$

$\therefore$ Coefficients of integral powers of $x$ are

$$
\frac{{ }^{50} C_{0}(-2)^{0} ;{ }^{50} C_{2}(-2)^{2} ;{ }^{50} C_{4}(-2)^{4} ; \ldots . . ;{ }^{50} C_{50}(-2)^{50}}{r \text { is even }}
$$

$\therefore$ Required sum is

$$
\begin{aligned}
& \text { Required sum is } \\
& ={ }^{50} C_{0} 2^{0}+{ }^{50} C_{2} 2^{2}+{ }^{50} C_{4} 2^{4}+\cdots+{ }^{50} C_{50}(2)^{50}=S \\
& (1+x)^{50}+(1-x)^{50}=2 S \text {, where } x=2
\end{aligned}
$$

$$
\therefore \quad S=\frac{1}{2}\left\{3^{50}+1\right\}
$$

$\therefore$ Correct option is (3)

