## Holiday Homework Class - 12 (2025-26) Subject - mathematics

## Do these questions in your classwork notebook.

- 1. Let A={1,2,3}.write all one-one fro a itself.
- 2. Show that the function f:R $\rightarrow$ R given by f(x) =  $x^3$ +x is a bijection.
- 3. Prove that every identity relation on a set is reflexive, but the converse is not necessarily true.
- 4. Find the set of values of  $cosec^{-1}\left(\frac{\sqrt{3}}{2}\right)$ .
- 5. If  $tan^{-1}(cot\theta) = 2\theta$ , then find  $\theta$ .