This is not an exam but please write your answers independently.
Index Number:

Name:

Q1. What is the percentage you like the following subject areas out of all the subjects you like(percentages must add up to $100 \%$ )

1. Mathematics:
2. Engineering:
3. Other subjects:

Q2. $\sqrt{x^{2}}=$

Q3. Use $\frac{d}{d x}(\sin x)=\cos x$ to find $\frac{d}{d x}\left(\sin ^{-1} x\right)$.

## Q4. $\sum_{k=0}^{\infty}(-1)^{k}=$

Q5. $\int_{-1}^{1} \frac{1}{x} d x=$

Q6. $\int_{-1}^{1} \frac{1}{x^{2}} d x=$

Q7. Distinct positive integers $x, y$ satisfying $x^{y}=y^{x}$ are

Q8. $(-1)^{\pi}=$

