

Number greater than 4 = 5, 6

$$\text{Probability} = \frac{2}{6} = \frac{1}{3}$$

Question No: 17 (Marks: 1) - Please choose one
If two relations are reflexive then their composition is

- Antisymmetric
- Reflexive
- Irreflexive
- Symmetric

Question No: 19 (Marks: 1) - Please choose one
Select the correct one

- A proof by contradiction is based on the fact that a statement can be true and false at the same time.
- **A proof by contraposition is based on the logical equivalence between a statement and its contradiction.(Page 198)**
- The method of loop invariants is used to prove correctness of a loop without any conditions.
- None of the given choices

Question No: 20 (Marks: 1) - Please choose one
According to Demorgan's law $\sim (p \vee q) = ?$

- $\sim p \vee \sim q$
- $\sim p \wedge \sim q$ **Correct**
- $\sim p \wedge q$
- $\sim p \vee q$