Question No: 2 (Marks: 1) - Please choose one

For a binary relation R defined on a set A , if for all $t \in A, (t,t) \notin R$ then R is

- Anti symmetric
- Symmetric
- **Irreflexive (Page 77)**

Question No: 3 (Marks: 1) - Please choose one

If ($A \cup B$) = A, then ($A \cap B$) = B

- **True**
- False
- Cannot be determined

Question No: 4 (Marks: 1) - Please choose one

Let

$a_0 = 1, a_1 = -2 \text{ and } a_2 = 3$

$\text{then } \sum_{j=0}^{2} a_j =$

- -6
- **2**
- 8

$1 + (-2) + 3 = 2$

Question No: 5 (Marks: 1) - Please choose one

The part of definition which can be expressed in terms of smaller versions of itself is called

Base

Restriction

Recursion (page 159)

Conclusion

Question No: 6 (Marks: 1) - Please choose one

$$\left\lceil \frac{N}{6} \right\rceil = 9$$

What is the smallest integer N such that

- 46
- 29
- **49**

$N = 6 \times (9-1) + 1$

$= 6 \times 8 + 1 = 49$

Question No: 7 (Marks: 1) - Please choose one

In probability distribution random variable f satisfies the conditions