

## Statistics - ICS Part 2 Statistics English Medium Chapter 5 Short Questions Preparation

Q1. if the expected and observed frequencies were identical then the value of chi square would be zero Can we conclude in these situations that the attributes are significantly related with each other ?

**Ans 1:** No. In such situations we should conclude that attributes are independent.

Q2. Why we use a one-tail test in goodness of fit test ?

**Ans 1:** In goodness of fit test we test the assumption that the difference between the observed and expected frequencies is not too large. We reject the assumption if difference is significantly large and that is why we use the right tail of sampling distribution as critical region.

Q3.

**Ans 1:**  $V = (r - 1)(c - 1)$

Q4. What are the limits for Chi square statistic ?

**Ans 1:** The value of Chi square fluctuates in between 0 and infinity.

Q5.

**Ans 1:**

Q6. As the ranks are always positive therefore, it can be conclude that rank's correlation coefficient will always be positive.

**Ans 1:** No, its value always lies in between -1 and +1.

Q7.

**Ans 1:**

Q8.

**Ans 1:**

Q9.

**Ans 1:**

---

Q10.

**Ans 1:**

---