**Q1) Which of the following is NOT an assumption to use ANOVA**?

1. Homogeneity of variance
2. Independence of observations
3. Normality of residuals
4. Equidistant data points

**Q2) Which type of ANOVA is appropriate when there is only one factor being tested?**

1. One-Way ANOVA
2. Two-Way ANOVA
3. Three-Way ANOVA
4. Factorial ANOVA

**Q3) Which term in the ANOVA table represents the amount of variation due to differences between groups?**

1. Within Groups
2. Total
3. Between Groups
4. Error

**Q4) Which Python library can be used to perform ANOVA?**

1. NumPy
2. Pandas
3. SciPy
4. Matplotlib

**Q5) What percentage of the total variation in the response variable is explained by the differences between groups in ANOVA?**

1. Between Groups Variance / Total Variance
2. Within Groups Variance / Total Variance
3. Between Groups Variance / (Between Groups Variance + Within Groups Variance)
4. Within Groups Variance / (Between Groups Variance + Within Groups Variance)

**Q6) In a One-Way ANOVA with 4 groups, what degrees of freedom are associated with the Within Groups sum of squares?**

1. 1
2. 2
3. 3
4. 4

**Q7) In Python, which function from the scipy library is used to perform One-Way ANOVA calculations?**

1. scipy.stats.ttest\_ind
2. scipy.stats.f\_oneway
3. scipy.stats.chisquare
4. scipy.stats.mannwhitneyu

**Answers:**

**Q1)** Equidistant data points. (Option D)

**Q2)** one-way ANOVA0 (Option A)

**Q3)** Between Groups (Option C)

**Q4)** scipy (Option C)

**Q5)** Between Groups Variance/ (Between Groups Variance + within Groups Variance). (Option C)

**Q6)** 4 (Option D)

**Q7)** scipy.stats.f\_oneway (Option B)