



Q.1. Answer the following questions.

(10x3=30)

i) What is difference between Paired sample t-test and Independent sample t-test?	ii) Explain the terms "Reliability" and "Validity".
iii) How researchers choose the right test statistical technique for data analysis purpose?	iv) Differentiate between descriptive and inferential statistics.
v) Explain, why it is important for a researcher to manipulate the data and collapsing a continuous variable into group.	vi) Differentiate between Type-I and Type-II error with example.
vii) Which method is used to checking the outliers when researcher assessing the normality od SPSS data files?	viii) Why it is important for a researcher to recode the negatively worded items?
ix) How researchers choose appropriate scales and measures?	x) Write the procedure of Computing New Variables.

Answer the following questions.

Q.2. Write a brief account on the role of SPSS in field of research. (4x1=4)

Q.3. From the Statement given bellow choose a) right suitable test statistical technique for analysis b)write and identify the number and nature of the variables in the given statement c) write the alternative technique of this particular suitable statistical technique. (2+2+2=6)

Statement: "Is there a difference in the optimism scores for males and females, who are under age of 35 years, 36-49 years and 50+ years".

Q.4. Described the term "Correlation" and its main parametric and non-parametric techniques. (2+2+2=6)

Q.5. Differentiate between Parametric and Non-Parametric statistical techniques in SPSS. (2+2=4)

Q.6. Write your understanding on the following topic (5+5=10)

a) Main assumptions of the normal distribution b) One Way Analysis of Variance (ANOVA)