The Chartered Institute of Logistics and Transport

INTERNATIONAL ADVANCED DIPLOMA IN LOGISTICS AND TRANSPORT

RESEARCH METHODS AND DATA ANALYSIS

ADIP 06

June 2023

Note to Candidates

The aim of this paper is to establish your in-depth understanding of the principles and applications involved in Research Methods and Data Analysis. Candidates are encouraged to make use of relevant examples where applicable.

Instructions to Candidates

- Duration of examination: **3 hours**

- **ANSWER ANY FIVE (5) QUESTIONS**

- Questions may be answered in any order.

- Allocation of marks is indicated alongside each question.

- Credit will be given for citing relevant examples.

- Write legibly.

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Question 1

'Statistics and business research are interlinked aspects. Discuss the critical link highlighting the roles of statistics in research. (**20 marks**)

Question 2

a) Complete the Following Analysis of Variance Table (ANOVA) **(5 marks)**

Source of variation	Sum of Squares	Degree of freedom	Mean Square	F Value	P value
Factor	?	4	?	?	0.313612
Error	12,062.1	?	?		
Total	12,646.2	51			

b) Discuss the importance of literature review in a research proposal.

(15 marks)

Question 3

Research can either be qualitative or quantitative. Critically compare these two types of research methods and provide examples of each. **(20 marks)**

Question 4

Discuss the various aspects of research ethics, with regard to transport and logistics.

(20 marks)

Question 5

Explore ways in which the internet has affected business research practices.

(20 marks)

Question 6
'Many of critisms levelled at quantitative research concern its positivist epistemology in particular, Interpretivist argue that it is misleading to treat the social world as if it were the same as natural world' Discuss. **(20 marks)**