



REFORMED CHURCH UNIVERSITY

FACULTY OF COMMERCE

**BACHELOR OF COMMERCE HONOURS DEGREE IN
PUBLIC ADMINISTRATION**

RESEARCH METHODS AND STATISTICS

HPAD 208

PART 2 SEMESTER 2 EXAMINATION

TOTAL MARKS [100]

DATE: DECEMBER 2022

Time: 3 Hours

INSTRUCTIONS

1. This paper has *six (6)* questions
2. Answer question *one (1)* and *any* other *three (3)*
3. Each question carries *25 marks*
4. Start each question on a new page

1. Discuss the major tenets of any three mixed method research approaches as they apply in your area of study. (25)
2. Assess the role of ethics in research. (25)
3. Examine any 5 strategies used to generate trustworthy data from interviews (25)
4. (a) A researcher wanted to find out the type of masks that is durable when exposed to some conditions. The number of minutes taken before the material tears are presented below:

Type A	54	59	58	56	56	59
Type B	55	56	54	55	57	53

For each type of masks, calculate

- (i) mean time (4)
- (ii) standard deviation (4)
- (iii) coefficient of variation and identify a more durable type of masks giving a reason. (5)
- (iv) standard (z) score of 58 minutes for type A of masks (2)
- (b) Distinguish the following terms
 - (i) statistic and parameter (5)
 - (ii) positivism and interpretivism (5)
5. (a) A training officer wanted to find out the extent of relationship between the time spent attending a workshop and the time spent serving a client. Data were collected from eight employees as follows:

Employee	A	B	C	D	E	F	G	H
Workshop time	8	7	9	4	5	6	8	3
Service time	3	4	2	6	4	3	2	4

- (i) Calculate the Pearson product moment correlation coefficient. (12)
- (ii) Comment on the relationship (2)
- (iii) Calculate the coefficient of determination (3)
- (iv) Comment on the answer got in (iii) above (2)
- (b) Explain the following terms as used in research methods and statistics:
 - (i) ex post facto (3)
 - (ii) hypothesis (3)
6. Discuss the applicability of any 5 non probability sampling techniques in the selection of participants in research in your area of specialisation. (25 Marks)

End of Paper