BINDURA UNIVERSITY OF SCIENCE EDUCATION SFM 211: REASEARCH METHODS

Time: 3 hours

, = MOV 2024

Candidates may attempt ALL questions in Section A and at most two questions in Section B. Each question should start on a fresh page.

Section A (40 marks)

Candidates may attempt ALL questions being careful to number them A1 to A4.

A1.	Briefly explain the following terms	
	Sampling	[3]
	Research design	[3]
	Research proposal	[4]
A2.	Differentiate basic research from applied research.	[10]
A3.	Explain the following sampling approaches	
	(a) Snowball sampling	[3]
	(b) Quota sampling	[3]
A4	Define literature review and explain its significance.	[14]

Section B (60 marks)

Candidates may attempt two questions being careful to number them B5 to B7.

B5. (a) Discuss primary data under the following headings

i) Sources	[4]
ii) Advantages	[4]
iii) Disadvantages	[4]
iv) Data collection methods	[4]

(b) Discuss the main points that you will take into account while drafting a questionnaire?

[14]

B6. a) Analyze the case study and descriptive approach to research.	[10]
b) Distinguish between research methods and research methodology.	[10]
c) What constitutes successful research proposal?	[10]

B7. a) Explain the role of Graphs and Diagrams

[10]

b) What are the types and general rules for graphical representation of data? [10]

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c) Independent random samples are selected from two populations. Below are selected summary statistics.

Pop.	Mean	Stand. Dev	Sample size
	62.00	10.00	17
	54.00	6.00	10

i) Construct the 95% confidence interval for $\mu X - \mu Y$.

[6]

ii) Obtain the P-value for the alternative $\mu X \neq \mu Y$.

[4]

THE END