2914/201 2915/201 RESEARCH METHODS June/July 2020 Time: 3 hours



THE KENYA NATIONAL EXAMINATIONS COUNCIL

DIPLOMA IN APPLIED BIOLOGY DIPLOMA IN ANALYTICAL CHEMISTRY

MODULE II

RESEARCH METHODS

3 hours

INSTRUCTIONS TO CANDIDATES

You should have the following for this examination: Answer booklet;

Non-programmable scientific calculator.

This paper consists of TWO sections: A and B.

Answer ALL the questions in section A and any THREE questions from section B in the answer booklet provided.

Each question in section A carries 4 marks while each question in section B carries 20 marks. Maximum marks for each part of a question are indicated.

Candidates should answer the questions in English.

This paper consists of 4 printed pages.

Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

SECTION A (40 marks)

Answer ALL the questions in this section.

1.	State four characteristics of basic research.	(4 marks)
2.	Outline four reasons that make it necessary for a researcher to reference sources of information.	(4 marks)
≱ 3.	List four components of a research proposal.	(4 marks)
4.	Distinguish between population and sample as used in research.	(4 marks)
5.	State four criteria that a good research problem statement should meet.	(4 marks)
6.	Outline four features of a good business name.	(4 marks)
7_	State four functions of a business plan in an organization.	(4 marks).
8.	Highlight four elements of distribution strategy for a business enterprise.	(4 marks)
9.	Outline four ways in which the financial plan of a business may assist an entrepreneu achieve business objectives.	
10.	Mo	(4 marks)
-	Outline four non-monetary rewards that the management of a business enterprise ma motivate employees.	y use to (4 marks)

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SECTION B (60 marks)

Answer any THREE questions from this section.

- 11. (a) Distinguish between reliability and validity as used in research. (4 marks)
 - (b) Explain four factors that a researcher should consider when selecting a research design.
 (8 marks)
 - (c) Explain four advantages of focus group discussions as a method of data collection.
 (8 marks)
- 12 (a) State four factors that may determine the sample size for a research study. (4 marks)
 - (b) Some researchers prefer to use telephone interviews to collect data during research. Explain five reasons that may account for such preference. (10 marks)
 - (c) Explain three requirements that the recommendations of a research report should meet.
 (6 marks)
- 13. (a) Explain three purposes of a research report. (6 marks)
 - (b) In a study to test the viability of a new variety of maize, an experiment was carried out on fifty experimental fields. The following results were obtained.

Yield per hectare (tonnes)	Number of fields
31 - 35	2
36 - 40	3
41 - 45	8
46 - 50	12
51 - 55	16
56 - 60	5
61 - 65	2
66 - 70	2

Determine the:

- (i) mean; Eax
- (ii) standard deviation;
- (iii) variance.

S.D = EN (x-x) 2-

3 Ext -

(14 marks)

Turn over

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50

- 14. (a) James and William are in the process of registering a partnership form of business. Explain four benefits that they may derive from operating this form of business.
 (8 marks)
 - (o marks)
 - (b) Identify four aspects of the product element of the marketing mix. (4 marks)
 - (c) Explain four objectives that a manufacturing firm may seek to achieve through production scheduling. (8 marks)
- (a) Explain three stock-related challenges that may be faced by a manufacturing firm.
 (6 marks)
 - Outline four reasons that make insurance an important support service to businesses.
 (8 marks)
 - (c) Explain three indicators of a poorly written business plan. (6 marks)

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