EBCU 001 REVISION QUESTIONS

1. a) i) Give three reasons for sampling (3mks)

    ii) List two basic ways of sampling (2mks)

    b) Briefly explain the following terms used in research

    i)   Variable (1mk)

    ii)   Research design (1mk)

    iii)   Population (1mk)

    iv)   Hypothesis (1mk)

    v)   Research proposal (1mk)

    c) Briefly describe the topics usually covered in a research proposal (20mks)

2. a) List and explain 5 purposes of research (10mks)

    b) Discuss five hall marks of scientific research (10mks)

3. Discuss four research types that are appropriate with qualitative approach (20mks)

4. Describe any four types of probability sampling (20mks)

    a) State 4 characteristics of a research (8mks)

5. b) Explain the importance of literature review in research (12mks

    a) The following are scores obtained in a geography CAT by 15 form 4 students

    23,   19,   15,   16,   19,   13,   09,   11,   21,   08,   19,   16,
    19,   16,   13

6. Calculate the following;

    i)   Mean (3mks)

    ii)   Range (2mk)

    iii)   Mode (2mk)

    iv)   Median (3mks)

b) Define the following terms;

i)   Hypothesis

ii)   Conceptual problem

iii)   Literature review

iv)   Research design (10mks)

c) Discuss any four functions of research in education (4mks)

d) Distinguish between qualitative and quantitative methods of research (4mks)

e) What is data analysis in research? (2mks)

Answer any two questions from this section (40 marks)

7.   a) Describe the following methods as used by resources in collecting data;

i)   Experimental method (5mks)

ii)   Survey method (5mks)

b) Distinguish between the following;

i)   Independent variables and dependent variables (4mks)

ii)   Null hypothesis and alternative hypothesis (4mks)

c) Explain two characteristics of a good scientific study (2mks)

3.   a) Define the term reliability (3mks)

b) Explain the following approaches to the assessment of reliability

i)   Test-retest reliability (4mks)

ii)   Split-half reliability (3mks)

c) Identify and discuss five types of threats to reliability and validity and explain how they can be reduced (10mks)

8.   State and explain the five chapters of a thesis or project (20mks)

9.   Describe the various types of probability sampling techniques giving examples of when they are applicable (20mks)

10.   a) Using appropriate examples, discuss the concept of social research   (4 marks)

        b) Discuss the properties of scientific research methods   (4 marks)

        c) Using appropriate examples, give the distinction between

        i)   Basic and applied research   (2 marks)

        ii)   Problem solving and theory testing research   (2 marks)

        d) Generally, hypothesis serve the purpose of giving direction to the study and nature of date to be collected. Outline the characteristics of a good research hypothesis   (4 marks)

        e) State and explain the general purpose of literature review in research (4 marks)

        f) Briefly distinguish between probability and non-probability sampling (4marks)

g) Describe the general purpose of piloting a data collection instrument   (6 marks)

        11. Outline the major differences qualitative and qualitative research giving concrete examples (20marks)

11. Discuss, using appropriate examples, the following research designs

        a)   Survey design   (5 marks)

        b)   Case study design   (5 marks)

        c)   Correlation design   (5 marks)

d)   Evaluation design   (5 marks)

12. You have been sponsored to undertake research on the trauma on the armed forces in Kenya

        a) Discuss 5 logistical issues which you would consider   (10 marks)

b) Discuss 5 ethical considerations that you would bear in mind   (10 marks)

13. Describe the main stages of the research process   (20 marks)