**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**SCHOOL OF HEALTH SCIENCES**

**UNIVERSITY EXAMINATION FOR THE DIPLOMA IN COMMUNITY HEALTH**

**DEVELOPMENT**

**2<sup>ND</sup> YEAR 1<sup>ST</sup> SEMESTER 2018/2019 ACADEMIC YEAR**

**KISII CAMPUS- PART TIME**

**COURSE CODE:  HDC 2211**

**COURSE TITLE:  INTRODUCTION TO RESEARCH METHODS**

**EXAM VENUE:**

**DATE:**

**TIME: 1.30 HOURS**

## Instructions:

1. Answer Section A (Compulsory) and ANY other 2 questions in Section B
2. Candidates are advised not to write on the question paper.
3. Candidates must hand in their answer booklets to the invigilator while in the examination room.

## SECTION A    (30 marks)

1. Outline the ethical principles in research                (5 marks)
2. Outline the characteristics of a good hypothesis       (5 marks)
3. Explain the importance of conducting literature review in research (5 marks)
4. Distinguish between;

    i)        Primary data and secondary data
    ii)       Qualitative and quantitative research
    iii)      Nominal and ordinal scales of measurement          (6 marks)

5. Contrast between Sample and Universe                              (4 marks)
6. Discuss briefly on questionnaire as  a data collection tool          (5 marks)

## SECTION B       (4O marks)

9    a) Discuss the following sampling techniques in research methods  (10 marks)
     b) Calculate the median in the following grouped data

| Interval | Frequency |
|----------|-----------|
| 0-1      | 67        |
| 1-2      | 56        |
| 2-3      | 123       |
| 3-4      | 23        |
| 4-5      | 84        |
| 5-6      | 35        |

10  a) Discuss the steps of formulating a research proposal      (10 marks)
    b) Describe the elements in a proposal                               (10 marks)

11  a) Discuss the different types of biological study designs      (10 marks)
    b) Calculate the mode for the following grouped data    (10 marks)

| Interval | Frequency |
|----------|-----------|
| 0-1      | 11        |
| 1-2      | 35        |
| 2-3      | 134       |
| 3-4      | 86        |
| 4-5      | 92        |
| 5-6      | 64        |