UNIVERSITY OF ESWATINI

DEPARTMENT OF GEOGRAPHY, ENVIRONMENTAL SCIENCE AND PLANNING

FINAL EXAMINATION, MAY/JUNE 2020

MSc. ENVIRONMENTAL RESOURCES MANAGEMENT - LAND AND WATER RESOURCES MANAGEMENT

TITLE OF PAPER:

GEP RESEARCH TECHNIQUES

COURSE CODE:

GEP608

TIME ALLOWED:

THREE (3) HOURS

INSTRUCTIONS:

1. ANSWER TWO (2) QUESTIONS

2. ANSWER ONE (1) QUESTION FROM EACH SECTION
3. IF YOU ANSWER QUESTION 4, DETACH YOUR CODED INTERVIEW TRANSCRIPT (ATTACHMENT B) FROM THIS EXAMINATION QUESTION PAPER AND SUBMIT IT

TOGETHER WITH YOUR ANSWER BOOKLET.

4. WHERE APPROPRIATE, ILLUSTRATE YOUR ANSWER

WITH DIAGRAMS AND EXAMPLES.

MARKS ALLOCATION: EACH QUESTION CARRIES 50 MARKS.

THIS QUESTION PAPER SHOULD NOT BE OPENED UNTIL PERMISSION HAS BEEN GRANTED BY THE INVIGILATOR

GEP RESEARCH TECHNIQUES - MAY/JUNE, 2020 **GEP608**:

SECTION A: ANSWER ONE QUESTION FROM THIS SECTION

OUESTION 1

- a) 'All geographers researching about climate change start with the assumption that climate change is an objective reality.' Critically discuss the validity of this statement. (25 marks)
- b) Identify and explain any three types of research classified according to purpose. (15 marks)
- c) Define what research design entails in both qualitative and quantitative research. (5 marks)
- d) Illustrating with a diagram, outline the reasons why it is advisable for a researcher to produce (5 marks) and follow a time plan. (50 Marks)

QUESTION 2

The recent global outbreak of the Coronavirus (COVID-19) has caused much panic with major impacts on all sectors of the economy. The lack of verified facts, misinformation and rumours floating on social media are to be blamed for this panic. The Ministry of Tourism & Environmental Affairs engages you as an independent researcher to conduct a mixed-methods study to investigate the impacts of COVID-19 on the tourism industry in both rural and urban areas of Eswatini. The Ministry requires you to present your research proposal (inception report) to the steering committee within fourteen working days of receiving the terms of reference.

- a) Define what a research proposal entails and outline the basic components you will have in (10 marks) your research proposal.
- b) Illustrating with a diagram, explain how you will structure your literature review.

(10 marks)

c) Identify and describe three target populations and how you will sample them.

(15 marks)

d) Describe how you will collect and analyse data from any two target populations in (c) above.

(10 marks)

e) Explain possible ethical issues that might arise from this research.

(5 marks) (50 Marks)

SECTION B: ANSWER ONE QUESTION FROM THIS SECTION

OUESTION 3

a) The Matsapha Town Council (MTC) tasked you to conduct a quantitative study to measure the amount of food high-income households at Tubungu throw away as waste on a daily basis over a period of three months from February to April. By using the table of random numbers in Attachment A, you decided to draw a simple random sample of 10% (n = 15) from a sampling frame of 150 high-income households at Tubungu you got from the MTC.

- State the reasons why sampling is necessary in the context of this study. (5 marks) i)
- How many random digits make up each random number that you will use in the ii) (3 marks) sampling?
- If you start at row 7, column 8 of the table of random numbers, what is the first iii) (2 marks) sample household?
- Write down the random numbers of all the 15 households you will sample. (Show all the random numbers including those that are not on the sampling frame). (20 marks) iv)
- b) Yow were able to measure the following amounts of food each of the 15 sampled households has thrown away during the month of February:

5kg, 9kg, 11kg, 9kg, 7kg, 6kg, 3kg, 2kg, 9kg, 8kg, 7kg, 9kg, 5kg, 16kg and 10kg

Calculate the following descriptive statistics for the amount of food that was thrown away: (3 marks)

i) Arithmetic mean (5 marks)

ii) Variance (2 marks) iii) Standard deviation

c) Identify and distinguish between any two different types of reliability. (10 marks) (50 Marks)

OUESTION 4

- a) Attachment B is a transcript of a mixed-gender focus group discussion with 6 middle-aged people aged 45-59 years to explore their views on and observations of the everyday living conditions of elderly people aged 60 years and above living alone in one rural settlement.
 - i) Explain the possible criteria the researcher used in recruiting the participants for this focus group discussion.
 - ii) Discuss the advantages and disadvantages of using focus group discussions to collect this (10 marks) type of qualitative data.
 - iii) Read this interview transcript and analyze it by allocating as many codes as possible. (10 marks)
 - iv) Using a concept map, categorize the codes in (iii) into themes and subthemes. (10 marks)
- (5 marks) b) Explain the concept of validity as applied in qualitative research.
- c) Identify and explain any two types of observation used in qualitative research. (10 marks) (50 Marks)

ATTACHMENT A: TABLE OF RANDOM NUMBERS

| LILA | CHIVIDIA. | ΓA; TAB | J.D. O.Z | | | - | | |
|----------|-------------|-------------|--------------|----------|---------|---------|----------|--------|
| | 708151 | 976409 | 400067 | 216834 | 684347 | 484817 | 104740 | 789880 |
| 2 | 773125 | 187567 | 911618 | 157018 | 708914 | 067263 | 814814 | 010041 |
| | 893490 | 987548 | 516861 | 861141 | 431562 | 210791 | 000458 | 951994 |
| 3 | 528031 | 831996 | 352458 | 407483 | 152470 | 409528 | 995758 | 164434 |
| 4 | 377819 | 574786 | 985870 | 707083 | 298807 | 901425 | 528245 | 140355 |
| 5 6 | 937010 | 815485 | 372295 | 632466 | 038148 | 828242 | 238807 | 757866 |
| 7 | 168615 | 872005 | 936857 | 771630 | 01,6694 | 020997 | 326090 | 346995 |
| 8 | 305368 | 378307 | 781549 | 806909 | 222571 | 409864 | 315928 | 380902 |
| 9 | 775384 | 507096 | 017182 | 518876 | 974090 | 059389 | 956023 | 792383 |
| 10 | 252907 | 817408 | 220710 | 415357 | 033021 | 828730 | 235298 | 915189 |
| 11 | 834407 | 727226 | 016877 | 985229 | 842952 | 656728 | 528703 | 050508 |
| ANNE | 338878 | 611255 | 785485 | 577319 | 892514 | 472091 | 866482 | 658345 |
| 12 | 734062 | 523545 | 493393 | 904386 | 203558 | 728568 | 328776 | 173894 |
| 13 | 686941 | 545091 | 651509 | 171941 | 944731 | 565050 | 565294 | 449049 |
| 14 | 239631 | 756523 | 396832 | 832270 | 169347 | 590838 | 439619 | 818628 |
| 15 | 610218 | 835749 | 699545 | 963164 | 679067 | 295663 | 798944 | 791955 |
| 16 | 118381 | 280648 | 694906 | 272042 | 011902 | 084902 | 368450 | 369182 |
| 17 | 236335 | 256661 | 140446 | 724723 | 555681 | 939848 | 770959 | 982757 |
| 18 19 | 764519 | 069552 | 997864 | 799280 | 786157 | 702536 | 671346 | 063692 |
| 20 | 132328 | 262978 | 140141 | 365062 | 630390 | 986358 | 046175 | 233131 |
| 21 | 824152 | 341105 | 183538 | 186590 | 955077 | 710776 | 578204 | 118686 |
| 22 | 929746 | 116398 | 444624 | 052431 | 179693 | 261849 | 175787 | 795862 |
| 23 | 820368 | 682211 | 022340 | 529069 | 014893 | 277169 | 617695 | 854335 |
| 24 | 949461 | 010376 | 005005 | 339885 | 325816 | 056001 | 322336 | 089572 |
| 25 | 778283 | 173956 | 802301 | 368969 | 120151 | 594623 | 242439 | 819178 |
| 26 | - | 194891 | 602405 | 290139 | 661672 | 246254 | 884610 | 824122 |
| 27 | | | | | 708426 | 006409 | 453749 | 915372 |
| 28 | - | | | | 875942 | 422987 | 122745 | 125187 |
| 29 | | | | 696341 | 125584 | 131260 | | |
| 30 | | | | 729087 | 377880 | 014374 | 783288 | |
| 3 | | | | 629688 | 250679 | 988220 | 135746 | |
| 32 | | | | 7 017090 | 92257 | 5 41163 | 724052 | |
| 3: | | | | 3 202185 | 121000 | 6 12170 | 978393 | |
| 3 | | | | | 23575 | 5 09375 | 3 539140 | |
| | 5 75643 | | | 9 067385 | 5 55702 | 4 72664 | 6 401318 | 02932 |

| | ATTACHMENT B: TRANSCRIPT OF A FOCUS GROUP DISCUSSION Source: Permission to use this transcript was granted by the owner of this intellectual property. Instructions 1. FILL IN YOUR DETAILS BEFORE CODING THIS INTERVIEW TRANSCRIPT. 2. DETACH YOUR CODED INTERVIEW TRANSCRIPT FROM THE QUESTION PAPER AND SUBMIT IT TOGETHER WITH YOUR ANSWER BOOKLET. | | | | | | |
|---|---|--|--|--|--|--|--|
| | | | | | | | |
| | | | | | | | |
| | COURSE CODE: GEP608 COURSE NAME: GEP RESEARCH TECHNIQUES | | | | | | |
| | STUDENT ID NUMBER: SEAT NUMBER: | | | | | | |
| | VENUE: DATE: | | | | | | |
| | Researcher (R): What are the attributes of an old person? | | | | | | |
| | Posttoinent (P1): There are older people who are still active but some are very | | | | | | |
| | ald and unable to do much for themselves. Elderly people who live alone need | | | | | | |
| | againstance form the Social and Community Development office (S&CD) | | | | | | |
| | especially with water. Most of them are unable to walk long distance to fetch | | | | | | |
| | water. Us we are still active and able to connect water in our homes but for | | | | | | |
| | older people they are unable to do so. Others need shelter because of their | | | | | | |
| | declining physical status they are unable to renovate their dilapidated houses. | | | | | | |
| | R: Any other comments? There was no response. Is it common in this | | | | | | |
| ŧ | community that elderly people live alone? | | | | | | |
| | P2: I am not sure. I do not know a lot of people who live alone. | | | | | | |
| | P3: There are a lot of people who live alone in this village. | | | | | | |
| | R: What do you think might be the reasons for living alone? | | | | | | |
| | The Timing along is challenge for example my neighbour who is an electry | | | | | | |
| | those houses you saw last time when you visited us, the ones that work | | | | | | |
| | surrounding her yard, there were for her children, and all of them passed away. | | | | | | |
| | She is left alone as you saw. She has no child left they all died. | | | | | | |
| 3 | R: From your observation, what are some of the needs of the elderly people | | | | | | |
|) | t - ma living along? | | | | | | |
|) | no. Title be need to eat healthy food but some do not have chough root | | | | | | |
| Ĺ | to eat at all. Nowadays, everything is money, for them to get things they have to | | | | | | |
| 2 | buy, for example food, firewood, water and other things they need daily. Sadly | | | | | | |
| 3 | most do not have source of income to be able to meet all their needs. The main | | | | | | |
| į | reason for people to live alone is because they have lost their loved ones. For | | | | | | |
| 5 | example my neighbour, all her children passed away. | | | | | | |
| 6 | P6: Many elderly people I see around need company. Because they spend most | | | | | | |
| 7 | of their time alone and this makes them worry a lot about their situation. This is | | | | | | |

| | VENUE | DATE: | | | | | | |
|----------|--|--------------------------------------|--|--|--|--|--|--|
| | STUDENT ID NUMBER: | SEAT NUMBER: | | | | | | |
| | COURSE CODE: GEP608 | COURSE NAME: GEP RESEARCH TECHNIQUES | | | | | | |
| 60 | for you is no more and you have no one left to support you financially. | | | | | | | |
| 59 | 50 PA: Ves that's true. These people overlook the fact that the person who built h | | | | | | | |
| 58 | 50 apportunities to be registered assisted by the social worker? | | | | | | | |
| 57 | 7 R: Do you mean that having a big h | ouse denies an individual the | | | | | | |
| 56 | | | | | | | | |
| 55 | died, and you are left with nothing what can | you do mouning, my neighbour | | | | | | |
| 54 | these big houses with nothing to eat. If the cl | and who has been supporting you | | | | | | |
| 53 | built them have passed away. Elderly people | WNO live alone have been for in | | | | | | |
| 52 | P6: Most of the modern houses you see aroun | a in this village, the children who | | | | | | |
| 51 | does that mean you eat it, does it provide you | with 1000? | | | | | | |
| 50 | built this house long passed away. One is left to | to wonder if you have a big house | | | | | | |
| 49 | she do not qualify because of the big modern b | nouse in her home. Her child who | | | | | | |
| 48 | The S&CD officer came to her house to make | an assessment. She was told that | | | | | | |
| 47 | neighbour who is an elderly person living alor | ne, decided to contact the S&CD. | | | | | | |
| 46 | There are a lot of challenges involved. You | struggle to make ends meet. My | | | | | | |
| 44 45 | P4. There is nothing good about living alone | especially to the elderly people. | | | | | | |
| 4.4 | R: From your observation, what is positive ab | out living alone? | | | | | | |
| 43 | have different needs and challenges. | | | | | | | |
| 42 | P1: As you have heard from the comments r | nade elderly people living alone | | | | | | |
| 41 | ageing and poor health, they lose the ability to | unction property. | | | | | | |
| 40 | need for assistance. This is important because | as their nearth deteriorates due to | | | | | | |
| 39 | variety of needs. The most common one which | h affect majority of them is the | | | | | | |
| 38 | P2. To comment on the needs of elderly pe | ople, one may say they have a | | | | | | |
| 37 | and most of them do not even have chickens to survive on. | | | | | | | |
| 36 | night worrying about their circumstances. They | struggle to put food on the lable | | | | | | |
| 35 | Most elderly people, especially those who ar | e living alone, spend steeptess | | | | | | |
| 34 | which cometimes makes them wish they were | e dead and joined their parents. | | | | | | |
| 33 | P3. There are a lot of challenges that elderly | people who are alone encounter | | | | | | |
| 32 | living alone experience the same thing and their | s is worse because of age. | | | | | | |
| 31 | live in towns and hardly visit me. It seems the | ley do not care. Elderly people | | | | | | |
| 29 30 | 2010, since then I have been living alone but | I have grownup children. They | | | | | | |
| 28 | especially when I am in my home as I have no | one to talk to. My wife died in | | | | | | |
| 20 | not healthy. I also live alone but I am not that n | nuch old. I experience loneliness | | | | | | |