University of Ruhuna - Faculty of Agriculture

Third Examination in B Sc in ARMT and ABM (Part II)

Social Science Research Methods (EC 3201) - 2020

Answer **FOUR** questions ONLY   Duration: 2 ½ Hours

1. a) What are the different methods in collecting data in Social Science Research?   (4 marks)

   b) Discuss the criteria of selecting a research problem for a research study in social sciences.

   (8 marks)

   c) Briefly discuss the difficulties in social science research compared to research in natural

   sciences.   (8 marks)

2 a) i) Distinguish primary data and secondary data.   (4 marks)
      ii) Distinguish semi-structured questionnaire and an open-ended questionnaire.   (4 marks)
      iii) List three main objectives of data tabulation?   (4 marks)

   b) Develop appropriate keys for data tabulation by using following sample questionnaire.
                                                                                  (8 marks)

Model Questionnaire to Identify Students' Perception on Three Degree Program (AT/AB & GT)
Offered by Faculty of Agriculture , University of Ruhuna

01. Gender :   1.Male ◯   2.Female ◯

02. District you are from: ....

03. School you studied: ....

04. A/L Subjects : 1.Biology ◯   2.Chemistry ◯   3.Physics ◯   4.Agriculture ◯

05. Z score: ....

07. If yes, what is the amount? Rs......................................

06. Course you are following: 1. AT ◯   2. AB ◯   3. GT ◯

07. Reason for select that course:

        Because of interest/Because of good job opportunity/Because of family forces

        /Any other

        ....

Following description is applicable for question number 3 and 4.

A group of student has done a field survey related to their SSRM course. Study objective was to investigate prospect and issues on entrepreneur development of the school leavers of the Galle District. They have collected the data from randomly selected 100 respondents from randomly selected four *Grama Niladhari* Divisions and data were tabulated by using MS Excel. Following figure illustrates the part of tabulation sheet.

Q No.	GN Division	Age	Gender	Education	Family Size	Farther Occupation	Body temperature	Family Income / month	Willingness to start a Business	Entrepreneur skill
1	Ha	21	1	13	5	farmer	36.1	65000	Very high	11
2	Ga	22	0	11	4	Business	35.5	78000	High	13
...	...	...	...	...	...	...	...	...	...	...
100	Ko	20	1	10	4	Government	36.2	82000	Low	8
Mean		22		10.5	4.5		36.01	64500		10.5
Mode		21	0	10	5		36	62000		9
Median		20.5	0	9	4		37	63000		8
SD		4		3	2		0.21	15000		2
Maximum		24	1	13	8		37.1	125000		15
Minimum		18	0	6	3		35.4	45000		6

3. i. Explain four (4) levels of measurement scales for measuring variables with examples. Your example should be based on the above tabulation sheet. (4 marks)

   ii. Mention appropriate tests to study followings. (8 marks)
   a. Whether the education level of the sample is represent the education of the Galle district
   b. Whether the entrepreneur skill of male and female are similar or not.
   c. Are there any significant differences of family income of selected four GD divisions.
   d. Are there any significant relationships of family size and family income of the respondents

   iii. Check whether respondents' entrepreneur skill is significantly difference than the expected level of the entrepreneur skill of the Galle District value (13.25). (t table value = 1.984) (8 marks)

4. i. What are the characteristics of Normal Distribution? (4 marks)

   ii What are the difference of Z test and t test? (4 marks)

   iii. Interpret the result by using descriptive statistics related to age, gender, education and entrepreneur skill? (4 marks)

iv. It was observed that majority are female (58) represents of the total sample 100. Check whether there is significant different of entrepreneur skill of male (1) and female (0) respondents? Consider the following information of the collected data. Mean and SD entrepreneur skill of male were 11.25 and 2.3 whereas mean and SD entrepreneur skill of female were 8.5 and 1.9 respectively.

(8 marks)

5. a) What is sampling error?

(4 marks)

b) Briefly explain the social science research process.

(8 marks)

c) How do you apply the 'MAXMIN CON' Principle in designing social science research study?

(8 marks)

E—N—D--