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UNIVERSITY OF SWAZILAND

FACULTY OF SOCIAL SCIENCE

DEPARTMENT OF SOCIOLOGY

SUPPLEMENTARY EXAMINATION PAPER, JULY 2005

TITLE OF PAPER	:	**RESEARCH METHODS**
COURSE CODE	:	**SOC 201**
TIME ALLOWED	:	**THREE (3) HOURS**
INSTRUCTIONS	:	1. ANSWER ANY <u>FOUR</u> (4) QUESTIONS.
		2. ALL QUESTIONS CARRY EQUAL MARKS.

THIS PAPER IS NOT TO BE OPENED UNTIL PERMISSION HAS BEEN GIVEN BY THE INVIGILATOR.

Course Code: Soc 201 (S) 2005

QUESTION 1

Discuss the advantages and disadvantages of surveys in relations to experiments.

QUESTION 2

Distinguish between participant and non-participant observation. Which is more common in field research?

QUESTION 3

Discuss the advantages and disadvantages of sampling. When is non-probability sampling justified?

QUESTION 4

Discuss the factors that influence topic selection in research.

QUESTION 5

Examine the various questionable practices in social research.

QUESTION 6

Discuss the importance of carrying out literature review in research.

QUESTION 7

A charitable organisation decided to give school fees to orphans. The Scale of payment were as follows:

Pre-primary	E100 per month
Primary	E200 per month
Junior high	E250 per month
High school	E300 per month

The number of orphans chosen by the organisation are shown below:

Pre-primary	36
Primary	30
Junior high	24
High School	10

Calculate the average monthly payment per person and the standard deviation.

QUESTION 8

Suppose that the data shown below were obtained in a study of the methods of suicide attempt:

	Male	Female
Ingestion or Inhalation of drug	16	22
Violent self-injury	18	14

Use the level of significance of 0.05 to test whether the difference among the sample proportions of suicide by violent self-injury are significant.

	Level of significance for a directional test					
	.10	.05	.025	.01	.005	.0005
	Level of significance for a non-directional test					
df	.20	.10	.05	.02	.01	.001
1	1.64	2.71	3.84	5.41	6.64	10.83
2	3.22	4.60	5.99	7.82	9.21	13.82
3	4.64	6.25	7.82	9.84	11.34	16.27
4	5.99	7.78	9.49	11.67	13.28	18.46
5	7.29	9.24	11.07	13.39	15.09	20.52
6	8.56	10.64	12.59	15.03	16.81	22.46
7	9.80	12.02	14.07	16.62	18.48	24.32
8	11.03	13.36	15.51	18.17	20.09	26.12
9	12.24	14.68	16.92	19.68	21.67	27.88
10	13.44	15.99	18.31	21.16	23.21	29.59
11	14.63	17.28	19.68	22.62	24.72	31.26
12	15.81	18.55	21.03	24.05	26.22	32.91
13	16.98	19.81	22.36	25.47	27.69	34.53
14	18.15	21.06	23.68	26.87	29.14	36.12
15	19.31	22.31	25.00	28.26	30.58	37.70
16	20.46	23.54	26.30	29.63	32.00	39.29
17	21.62	24.77	27.59	31.00	33.41	40.75
18	22.76	25.99	28.87	32.35	34.80	42.31
19	23.90	27.20	30.14	33.69	36.19	43.82
20	25.04	28.41	31.41	35.02	37.57	45.32
21	26.17	29.62	32.67	36.34	38.93	46.80
22	27.30	30.81	33.92	37.66	40.29	48.27
23	28.43	32.01	35.17	38.97	41.64	49.73
24	29.55	33.20	36.42	40.27	42.98	51.18
25	30.68	34.38	37.65	41.57	44.31	52.62
26	31.80	35.56	38.88	42.86	45.64	54.05
27	32.91	36.74	40.11	44.14	46.96	55.48
28	34.03	37.92	41.34	45.42	48.28	56.89
29	35.14	39.09	42.69	46.69	49.59	58.30
30	36.25	40.26	43.77	47.96	50.89	59.70
32	38.47	42.59	46.19	50.49	53.49	62.49
34	40.68	44.90	48.60	53.00	56.06	65.25
36	42.88	47.21	51.00	55.49	58.62	67.99
38	45.08	49.51	53.38	57.97	61.16	70.70
40	47.27	51.81	55.76	60.44	63.69	73.40
44	51.64	56.37	60.48	65.34	68.71	78.75
48	55.99	60.91	65.17	70.20	73.68	84.04
52	60.33	65.42	69.83	75.02	78.62	89.27
56	64.66	69.92	74.47	79.82	83.51	94.46
60	68.97	74.40	79.08	84.58	88.38	99.61

$$\text{Mean } \bar{X} = \frac{\Sigma fX}{\Sigma f}$$

$$S = \sqrt{\frac{\Sigma f(x-\bar{x})^2}{N-1}} \quad (OR) \quad S = \sqrt{\frac{N\Sigma fx^2 - (\Sigma fx)^2}{N(N-1)}}$$

$$\chi^2_{obs} = \Sigma \frac{(O-E)^2}{E}$$