



School of Development Studies

MBA Rural Management
Batch-06 (2017-2019) – 2 Year
Data Management and Analysis-1
Term Examination

Time - 3 Hour

MM-70

Instruction: The question paper contains 3 printed pages. In Q1, all questions are compulsory to attempt.

Q1. Give Tick (✓) on the right answers for the given questions. [10 Marks]

I. Data by itself is not useful to obtain information.

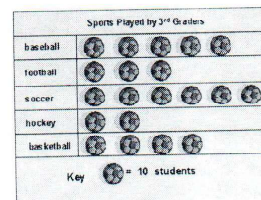
- a) It is massive
- b) It is processed to information
- c) It is collected from diverted sources
- d) It is properly stated

II. Information is?

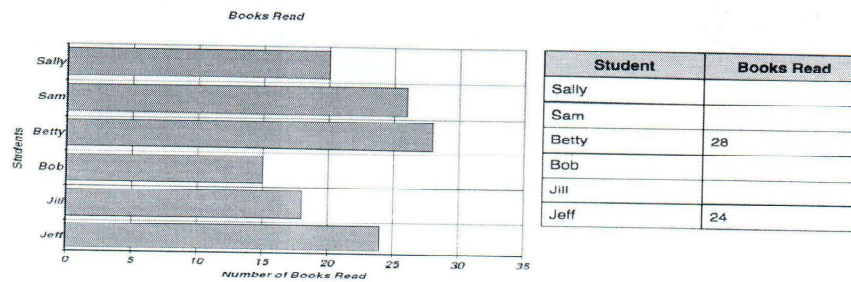
- a) Data
- b) Processed data
- c) Manipulated input
- d) Computer input

III. Which sports is played by 50 number of 3rd grade students?

- a) Soccer
- b) Baseball
- c) Basketball
- d) None of the above



IV. Fill the missing data from the chart:



V. What does the operation "Recode into Different Variables" in SPSS software do to the data?

- a) Replaces the missing data with some random scores.
- b) Bi-variate Analysis of variables.
- c) Reverses the position of the independent and dependent variable on a graph.
- d) Redistributes a range of values into a new set of categories and creates a new variable.

VI. What is the systematic arrangement for "data coding" process

- a) Categories, Themes, Code, Theory
- b) Code, Categories, Themes, Theory
- c) Theory, categories, code, Themes
- d) None of the above is correct

VII. "Blood pressure" is what kind of scale data?

- a) Nominal
- b) Ordinal
- c) Ratio
- d) Interval

VIII. Population may be

- a) Finite
- b) Infinite
- c) Finite and Infinite
- d) None of the above

IX. For each of the following variables indicate whether it is quantitative or qualitative variable with its measurement scale:

- a) The blood type of some patient in the hospital.

b) Gender of babies born in a hospital during a year.

X. Situation A: A sample study of 350 households in a town "Y" of your home district revealed that the studied households had 80 percent of the school going children. In this case,

- What is the Universe of the study?
- What is the sample size of the study?
- What variable is studied in the above situation?
- What kind of variable is the above one, qualitative or quantitative?

Q2. Write down short notes from the below (Answer Any 3 within 200 words) [15marks]

- Chi-square test
- Ethics in data management and Informed Consent
- Properties of Mean, Median and Mode
- Significance level
- Hypothesis testing
- Non-parametric and parametric test
- ODK Collect
- Difference between CSPRO and MS ACCESS
- Testing of Normality
- Degree of freedom



Q3. Solve the below questions and interpret the result? [20 marks]

- Develop the hypothesis for this question? A random sample of 395 people were surveyed (see the excel file and export to SPSS file), and each person was asked to report the highest education level they obtained. The table below presents the observed value for the two variables. Please see the Chi-square table given with the question to compare your result. (Ask for the chi-square table to your invigilator)

The data (Observed frequency) that resulted from the survey is summarized in the following table 1, below:

Table 1: Observed frequency of 395 samples

	High School	Bachelor's	Master's	PhD	Total
Female	60	54	48	41	203
Male	40	44	53	55	192
Total	100	98	101	96	395

Question: Are gender and education level dependent at 5% level of significance? In other words, given the data collected above, is there a relationship between the gender of an individual and the level of education that they have obtained?

Table no 2: Excepted cell count of the 395 responses

	High School	Bachelor's	Master's	PhD	Total
Female	51.4	50.4	51.9	49.3	203
Male	48.6	47.6	49.1	46.7	192
Total	100	98	101	96	395

Q4. Answer the following questions. Each question carries 3.33 marks. [10 marks]
Using the excel data (Set A_MBARM.xlsx) provided to you (the sheet 1 contains data and sheet 2 contains code details):

- Create an SPSS data file from the excel file and label the variable given with the help of code sheet in the variable view. Save the SPSS file in the name "Data_RMBATCH6_Your Roll No".
- Do cross tabulation between the variable "district" by "gender" by "qualification of the respondent" and based on the result prepare a cross tab table with proper title in the MSWORD and named it as "Crosstable_RMBATCH6_Your Roll No".
- Find out the percentage of respondents who belongs to "District Jaipur" (command: crosstab) who are "Female" and having "qualification of Master's Degree". Write your answer in the "Crosstable_RMBATCH6_Your Roll No" file with other interpretation.

Q5. Open type questions (Answer any three questions in this section, write your answer within 150 words) [15 marks]

- What do you understand by principle of data management? Explain with its characteristics?
- What do you understand by Data Quality? Explain with examples?
- What do you understand by ethics in data management?
- What do you understand by Standard Deviation?
- What do you understand by test for goodness fit?



Degrees of freedom	α									
	0.995	0.99	0.975	0.95	0.90	0.10	0.05	0.025	0.01	0.005
1	—	—	0.001	0.004	0.016	2.706	3.841	5.024	6.635	7.879
2	0.010	0.020	0.051	0.103	0.211	4.605	5.991	7.378	9.210	10.597
3	0.072	0.115	0.216	0.352	0.584	6.251	7.815	9.348	11.345	12.838
4	0.207	0.297	0.484	0.711	1.064	7.779	9.488	11.143	13.277	14.860
5	0.412	0.554	0.831	1.145	1.610	9.236	11.071	12.833	15.086	16.750
6	0.676	0.872	1.237	1.635	2.204	10.645	12.592	14.449	16.812	18.548
7	0.989	1.239	1.690	2.167	2.833	12.017	14.067	16.013	18.475	20.278
8	1.344	1.646	2.180	2.733	3.490	13.362	15.507	17.535	20.090	21.955
9	1.735	2.088	2.700	3.325	4.168	14.684	16.919	19.023	21.666	23.589
10	2.156	2.558	3.247	3.940	4.865	15.987	18.307	20.483	23.209	25.188
11	2.603	3.053	3.816	4.575	5.578	17.275	19.675	21.920	24.725	26.757
12	3.074	3.571	4.404	5.226	6.304	18.549	21.026	23.337	26.217	28.299
13	3.565	4.107	5.009	5.892	7.042	19.812	22.362	24.736	27.688	29.819
14	4.075	4.660	5.629	6.571	7.790	21.064	23.685	26.119	29.141	31.319
15	4.601	5.229	6.262	7.261	8.547	22.307	24.996	27.488	30.578	32.801
16	5.142	5.812	6.908	7.962	9.312	23.542	26.296	28.845	32.000	34.267
17	5.697	6.408	7.564	8.672	10.085	24.769	27.587	30.191	33.409	35.718
18	6.265	7.015	8.231	9.390	10.865	25.989	28.869	31.526	34.805	37.156
19	6.844	7.633	8.907	10.117	11.651	27.204	30.144	32.852	36.191	38.582
20	7.434	8.260	9.591	10.851	12.443	28.412	31.410	34.170	37.566	39.997
21	8.034	8.897	10.283	11.591	13.240	29.615	32.671	35.479	38.932	41.401
22	8.643	9.542	10.982	12.338	14.042	30.813	33.924	36.781	40.289	42.796
23	9.262	10.196	11.689	13.091	14.848	32.007	35.172	38.076	41.638	44.181
24	9.886	10.856	12.401	13.848	15.659	33.196	36.415	39.364	42.980	45.559
25	10.520	11.524	13.120	14.611	16.473	34.382	37.652	40.646	44.314	46.928
26	11.160	12.198	13.844	15.379	17.292	35.563	38.885	41.923	45.642	48.290
27	11.808	12.879	14.573	16.151	18.114	36.741	40.113	43.194	46.963	49.645
28	12.461	13.565	15.308	16.928	18.939	37.916	41.337	44.461	48.278	50.993
29	13.121	14.257	16.047	17.708	19.768	39.087	42.557	45.722	49.588	52.336
30	13.787	14.954	16.791	18.493	20.599	40.256	43.773	46.979	50.892	53.672
40	20.707	22.164	24.433	26.509	29.051	51.805	55.758	59.342	63.691	66.766
50	27.991	29.707	32.357	34.764	37.689	63.167	67.505	71.420	76.154	79.490
60	35.534	37.485	40.482	43.188	46.459	74.397	79.082	83.298	88.379	91.952
70	43.275	45.442	48.758	51.739	55.329	85.527	90.531	95.023	100.425	104.215
80	51.172	53.540	57.153	60.391	64.278	96.578	101.879	106.629	112.329	116.321
90	59.196	61.754	65.647	69.126	73.291	107.565	113.145	118.136	124.116	128.299
100	67.328	70.065	74.222	77.929	82.358	118.498	124.342	129.561	135.807	140.169

