International Institute of Health Management Research Delhi

Supplementary Exam

Data Management & Analysis

Total marks: 100 Duration: 2.5hrs

Answer MCQs in question paper itself and attach with the answer sheet.

SECTION A			(10*3 = 30)	
Q1) Data analysis is a pro	cess of data			
a) Inspection	(b) Cleaning	(c) Transformation	(d) All of them	
		derived from the most cor		
(a) Mean	(b) Median	(c) Mode	(d) All of them	
Q 3) Which measure is the (a) Mean	e most unreliable ind (b) Median	icator of central tendency (c) Mode	if data are skewed? (d) All of them	
Q 4) Which of the followir	ng variable name will (b) age@range	not be considered in SPSS (c) age-range	3 16? d) all of them	
(a) agerange	(b) age @ range	(c) age-range	a) all of them	
Q5) Which of the followin (a) Value labels	g aspects of a variab (b) Measurement	le CANNOT be defined in t (c) Maximum and minimur		,
Q6) Graph which present the vertical axis are k (a) Line graph	nown as	rizontal axis and the numb		
Q 7) The SPSS data files i	s saved with which e	xtension		
•	•	ex set ofetrieval of data in a databas		
Q 9) To run a cross-tabe i	n SPSS, one needs to	o click Analyze > Compare	Means > Means>Crosstal (YES/NO	
• • •	•	istics > Descriptives) is be ompare several numeric va	•)
	Secti	ion B	(30 marks)	
Q 11) Differentiate betweer		te quantitative data analysis	,	
Q 12) Discuss the relations		•		
•	•	ata in tabular and graphical	format	
Q 14) Write about five function		9. of		
•		scale variable by giving exan	nples	
,		riable label options of the SF	•	

Q17) Interpret following two outputs:

(10 marks)

Output 1					
Stress Level (Higher Values = More Stressed)					
N Valid 10					
	Missing	0			
Mean		37.7			
Median		36.0			
Mode		28 ^a			
Std. Deviation		7.8			
Variance		61.8			
Range		23			
Minimum		28			
Maximum		51			

Output 2							
	Gender*Internet use crosstabulation						
	Interr	Internet Use					
	User	Non-User	Total				
Sex Male	141	59	200				
	113	87	200				
Female							
Total	254	146	400				

Q 18) Interpret the following output:

(15 marks)

		Parent's	Child score
		score on	on anxiety
		anxiety	
Parent's score on	Person Correlation	1	.756**
anxiety	Sig. (2-tailed)		.011
	N	10	10
Child score on anxiety	Person Correlation	.756**	1
	Sig. (2-tailed)	.011	
	N	10	10

^{**.} Correlation is significant at the 0.01 level (2-tailed).

Q19) The following contains the results generated on data related to salaries of two categories of employees (clerical and manager). Explain the data and discuss the interpretation of the output (15 marks)

Group Statistics

	Employment Category	N	Mean Salary	Std. Deviation	Std. Error Mean
Current Salary	Clerical	27	Rs. 30,938.89	Rs. 2,114.62	Rs. 406.96
	Manager	84	Rs. 63,977.80	Rs. 18,244.78	Rs. 1,990.67

Independent Samples Test

		Levene's Test for Equality of Variances	t-test for Equality of Means	Equality						
		F	Sig.	t	df	Sig. (2-	Mean Difference	Std. Error Differenc	95% Confide Interval of d	ifference
						tailed)		e	Lower	Upper
Current Salary	Equal Variance s Assumed Equal	29.23	.000	-9.36 -16.26	109.0 89.58	.000	-Rs.33,039 -Rs.33,039	Rs.3,530 Rs.2,032	-Rs.40,034 -Rs.37,076	-26044 -29002
	Variance s Not Assumed									

a. Multiple modes exist. The smallest value is shown