International Institute of Health Management Research Delhi

Term Exam (Batch- 2016-18)

Data Management and Analysis

Total marker 70	C	•	Duration 2 has				
Total marks: 70 Duration: 3 hrs							
Answer 'Section	Answer 'Section A' in question paper itself and attach with the answer sheet. Questions of Section A, if answered in answer sheet, will not be evaluated at all.						
	Section A: MC	CQs (20 marks)					
1) How many var	riables are required for comput	ing a bi-variate co	rrelation analysis?				
(a) One	(b) Two	(c) Three	(d) Four				
2) How is a varia	able name different from a varia	able label?					
a) It is shorter and	less detailed	b) It is longer and	more detailed.				
c) It is abstract an	d unspecific	d) It refers to code	s rather than variables.				
3) Which measure of central tendency is derived from the most common value?							
a) Mean	b) Median	c) Mode	d) Distribution				
4) An 'outlier' is							
(a) An arithmetic I	mean	(b) a type of variat	le that cannot be quantified				
(c) An extreme va	lue at either end of a distribution	(d) A score left out	of analysis due to missing data				
 5) An independent t-test can be used to assess? (a) Differences between scores obtained on two separate occasions from the same participants (b) Relationships between two interval data sets (c) Differences between two groups of participants (d) Relationships between two ratio data sets 							
<i>,</i> .	e relationship between attitude: the following you will use:	s towards exercise	and physical fitness levels,				
(a) Bar Chart	(b) Pie Chart	(c) Scatterplot	(d) None				
7) In SPSS, all th	e outputs are generated in a se	eparate window	True / False				
8) Can "cases/records" from two different SPSS datasets having similar variables name be merged? True/False							
9) Is it possible t	o import data stored in excel fi	le to SPSS?	True/False				
10) A correlation (a) Strong	b) Weak	onsidered as a (c) Zero	relationship: (d) None				
Section B: Short Questions (25 marks)							
Q11) Differentiate between quantitative and qualitative data.							
-	040) Fundain the velotionabin between data information and brownlader						

- **Q12)** Explain the relationship between data, information and knowledge.
- **Q13)** Briefly mention about the different functions of database management system.
- **Q14)** Briefly discuss any two common source of information flaws.
- **Q15)** Briefly discuss about any two public health data source.

Section C: Long questions (25 marks)

Q16) Interpret output 1 and output 2:

(10 marks)

tput 1: Statistics		Output 2: Statistics					
			Anxiety * Tension Crosstabulation				
Age (in years)					Tension		
N Valid	133				low	high	Total
Missing	0	Anxiety	low	Count	5	21	26
Mean Std. Deviation	25.20	AllAlety	10 00	%	19.2%	80.8%	100.0%
Minimum	13.248 5		hiah	Count	15	7	22
Maximum	65		high	%	68.2%	31.8%	100.0%

- Q17) Suppose a researcher wants to study the effect of sugar (represented by variable SUGAR) on memory for words (represented by variable WORDS). You have two groups (also called conditions) in your experiment, sugar (represented by 1) and no sugar (represented by 2). Each participant only participates in one condition of the experiment. Participants in the first condition are not related in any way to participants in the second condition. (5 marks)
 - a) How many participants are there in each condition
 - b) Which test will you use and for what?
 - c) Interpret the following group statistics obtained while performing the test.

Group Statistics					
	SUGAR	Ν	Mean	Std. Deviation	Std. Error Mean
WORDS	1.00	5	4.2000	1.3038	.5831
	2.00	5	2.2000	.8367	.3742

Q17) Interpret the following output

(10 marks)

Gender*Employment Category in Hospital Cross tabulation						
Employment Category in Hospital					Total	
			Clerical	Supervisor	Manager	
Gender	Female	Count	206	0	10	216
		%within Gender	95.4%	.0%	4.6%	100.0%
	Male	Count	157	27	74	258
		%within Gender	60.9%	10.5%	28.7%	100.0%
Total		Count	363	27	84	474
		%within Gender	76.6%	5.7%	17.7%	100.0%

Chi-Square Tests					
Value Df Asym. Sig.					
			sided)		
Pearson Chi-Square	79.277	2	.000		
Likelihood Ratio	95.463	2	.000		
No. of Valid Cases	474				

a. 0 cells (.0%) have expected count less than 5. The minimum expected count is 12.30