## **International Institute of Health Management Research Delhi**

Supplementary Exam (Batch- 2017-19)

# **Data Management and Analysis**

Total marks: 100 Duration: 3 hrs

Answer 'Section A' in question paper itself and attach with the answer sheet. Otherwise, Section A will not be evaluated at all.

	Will 1100 B	o oran	autou ut um				
	SECTI	ION A:	MCQs				(20 marks)
1) The normal curve of any	data distribution in	SPSS is	s generally				
a) Unimodal	b) Bi-modal	c) Tri-	modal	d) No	ne of th	e above	
2) Merge file option can be	used to add						
a) Cases	b) Variables	c) Bot	h (a) and (b)	d) No	ne of th	e above	
3) Which option allows use under a new variable na	•	mbine	or alter variab	oles an	d place	the res	sulting value
a) Transform	b) Compute Variable		c) Recode	d) No	ne of th	e above	
4) Which type of file can be	imported in SPSS						
a) Excel files	b) MS Access databa	ase file	c)Both (a) and	d (b)	d) No	ne of the	e above
5) Missing values can be d	efined in						
a) Data view window	b) Variable view wind	low	c) Both (a) an	d (b)	d) No	ne of the	e above
6) Among the following var	riables names, which	one ca	annot be creat	ed in S	PSS?		
(a) @123	(b) @123-12		(c) @123_ab		(d) ab	@123	
7) The extension of output	file of the SPSS is _						
8) If null hypothesis is reje hypothesis is	cted, does it mean th	at we h	nave a conclus	sive pro	oof tha	the alt	ernative
(a) True	(b) False		(c) Neither Tr	ue or F	alse	(d) No	one of these
9) The SPSS option which referred as	•	e only	one of the sul	ogroup	s of re	search i	interest is
10) Split file option can be	used to produce out	put by	groups			Y/N	
	SECTION B:	SHORT	QUESTIONS				(42 marks)
11) What are graphs? Explai	n the importance of us	sing gra	phs in data ana	alysis?			
12) Briefly mention about DB	MS functions.						
13) What are the pre-requisit	es to keep in mind bef	ore ana	alyzing the data	ı?			
14) Explain the relationship b	oetween data, informat	tion and	l knowledge.				
15) Differentiate between ord	dinal and scale variable	e with e	xample				
16) Statistical test shows that indicates?	t two variables are ass	sociated	d with r = 0.6 ar	nd p val	ue of 0	02. Wha	at does p-value
17) What are the multiple res	sponse variables? Exp	lain the	ir importance.				
	SECTION C:	LONG	QUESTIONS				(38 marks)
18) Using the output of an in a) How many tests have			on subsequen	t page)	, answe	r followi	ing: <b>(12 marks)</b>

b) Which one will you choose for interpretation?c) Reasons for choosing that specific test.

#### Independent Samples Test

	Levene's Equality of			t-test for Equality of Means					
					Sig.	Mean	Std. Error	95% Con Interval Differ	of the
	F	Sig.	t	df	(2-tailed)	Difference	Diff erence	Lower	Upper
Equal variances assumed	93.772	.000	5.607	303	.000	2.57474	.45922	1.67108	3.47840
Equal variances not assumed			5.639	228.852	.000	2.57474	.45657	1.67511	3.47436

## Q19) Interpret following outputs:

Output (a) (6 marks)

### Favor or Oppose Death Penalty for Murder

		Frequency	Percent	Valid Percent	Cumulativ e Percent
Valid	Fav or	572	66.6	73.2	73.2
	Oppose	209	24.3	26.8	100.0
	Total	781	90.9	100.0	
Missing	DK	72	8.4		
	NA	6	.7		
	Total	78	9.1		
Total		859	100.0		

a. Respondent's Sex = Female

DK = Don't Know; NA = Not applicable

Output (b) (10 marks)

		Education level	Current salary	Previous experience
		(years)		(in months)
Education level	Pearson correlation	1.000	.661**	252**
(years)	Sig. (2-tailed)		.000	.000
	N	474	474	474
Current Salary	Pearson correlation	.661**	1.000	097*
	Sig. (2-tailed)	.000		.034
	N	474	474	474
Previous Experience	Pearson correlation	252**	097*	1.000
(in months)	Sig. (2-tailed)	.000	.034	
	N	474	474	474

Output (c) (10 marks)

Variables Entered/Removed₀ Mode	Variables Entered	Variable Removed	Method
1	Spendingonadvetisementa		Enter

a. All requested variables entered. b. Dependent variable: Sales

Model Summary Mode	R	R Square	Adjusted R Square	Std. Error of Estimated
1	.916 <sup>a</sup>	.839	.832	.73875

a. Predictors: (Constant), spending on advertisement