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CICT PART III SECTION 6

RESEARCH METHODS

FRIDAY: 25 May 2018. Time Allowed: 3 hours.

Answer ALL questions. Marks allocated to each question are shown at the end of the question.

OUESTION ONE

(a) Research design could be considered as the backbone of research. It is the "glue" that holds all the elements in a research project.

In relation to the above statement, describe four contents of research design.

(4 marks)

- (b) Distinguish between the following types of research:
 - (i) "Descriptive research" and "analytical research".

(2 marks)

(ii) "Quantitative research" and "qualitative research".

(2 marks)

(iii) "Conceptual research" and "empirical research".

(2 marks)

(c) Creative management, whether in public administration or private industry, depends on methods of inquiry that maintain objectivity, clarity, accuracy and consistency.

In reference to the above statement, explain five reasons for the significance of research.

(10 marks)

(Total: 20 marks)

QUESTION TWO

(a) Research is a careful, detailed and systematic study of a specific problem, concern, or issue to establish facts. This is best accomplished by turning the issue into a question, with the intent of the research to answer the question.

Based on the above statement, examine five characteristics of good research questions.

(5 marks)

(b) Moris Juma has just completed his Certified Information Communication Technologist (CICT) examinations. Part of the requirements by the examinations body is to undertake a research project. Moris is confused on how to identify a research problem.

Required:

Advise Moris Juma on five sources he could use to identify a research problem.

(5 marks)

(c) The starting point of a research is the selection of a research topic and research problem. Identifying a suitable research topic is one of the most difficult steps in research.

In relation to the above statement, analyse five criteria of identifying a suitable research topic.

(5 marks)

(d) Describe five types of quantitative research.

(5 marks)

(Total: 20 marks)

QUES (a)	STION TH Assess	IREE five reasons for the in	nportance	of int	erpreta	tion of	results	in rese	arch n	nethods	5.		(10 marks)
(b)	Describ	e five qualities of a go	od resear	ch hyp	othesis								(5 marks)
(c)	John M	ativo has just collected	d his resea	arch da	ta read	y for an	alysis.					in	(5 marks)
	Advise	John on two tools he c	ould use	in data	analys	is.							(2 marks)
(d)	Discuss	three factors that cou	ıld influe	nce the	choice	e of me	thod to	use in	data c	ollectio	on.	((3 marks) (Total: 20 marks)
QUES (a)	STION FO Explain	OUR the following sampli	ng techni	ques a	s used	in data	collec	tion:					
	(i)	Systematic random s	ampling.										(3 marks)
	(ii)	Multistage sampling											(3 marks)
	(iii)	Quota sampling.											(3 marks)
(b)	Examin	e four guidelines that	you could	l follov	v while	forma	tting yo	our rese	arch pa	aper us	ing AP	A-Style.	(4 marks)
(c)	Chapter	four of a research pro	ject relat	es to "I	Data an	alysis a	ınd pre	sentatio	n of th	e findi	ngs".		
	With re	ference to the above st	tatement,	outline	the sa	lient ar	eas cov	ered ur	nder thi	is chapt	ter.	ı	(7 marks) (Total: 20 marks)
QUES (a)	STION FI (i)	VE Explain the term "co	onceptual	frame	work"	as used	d in lite	erature	review				(2 marks)
	(ii)	Discuss four steps th	hat a rese	archer	should	follow	while	develo	ping a	conce	otual fr	amework	(4 marks)
(b)	(i)	Explain the term "ar	nnotated	bibliog	raphy"								(1 mark)
	(ii)	List four uses of anr	notated bi	bliogra	aphy in	resear	ch.						(4 marks)
(c)	Using s	suitable examples in o	each case	e, evalu	uate for	ur reas	ons for	the in	nportar	nce of	ethical	consider	rations in research. (4 marks)
(d)		lowing data was colle h methods paper:	ected fron	n Elim	u Com	puter C	College	relatin	g to m	arks ob	tained	by 10 stu	udents undertaking
	Studen	t serial number:	l	2	3	4	5	6	7	8	9	10	
	Marks	(%):	38	40	45	53	47	43	55	48	52	49	
	Requir	red: The mean mark.											(1 mark)
	(ii)	The variance of dista	ribution o	f mark	s.								(2 marks)
	(iii)	Test the hypothesis cent level of signific		ariance	of the	distrib	ution c	of mark:	s of all	studen	its is ec		Test this at 5 per (2 marks) (Total: 20 marks)
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3	6.251	7.815	9,348	11.34	12.84	16.27	
4	7.779	9.488	11.14	13.28	14.86	18.47	
5	9.236	11.07	12.83	15.09	16.73	20.52	
6	10.64	12.59	14.43	16.81	18.33	22.46	
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9	14.68	16.92	19.02	21.67	23.59	27.88	

10	15.99	18.31	20,48	23.21	25.19	29.59	
11	17.28	19.65	21.92	24.73	26.76	31.26	
12	18.55	21.03	23.34	26.22	28.30	32.91	
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90	107.6	113.1	118.1	124.1	128.3	137.2	
100	118.5	124.3	129.6	135.8	140.2	149.4	