Scat No. : _

NC-147

November-2019

M.Com. (HPP), Sem.-I

CC-3: Accountancy (Research in Accounting)

Time: 2:30 Hours]

[Max. Marks: 70

- 1. (A) (i) What is research? Explain in detail different types of research.
 - (ii) Explain steps of Research process.

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OR

- Write short note on structuring the research proposal.
- (ii) Discuss various types of research designs.
- (B) Answer any Four:

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- (1) Give one key feature of a good research design.
- (2) What is statistical hypothesis?
- Define Latin square design.
- (4) State one key difference between Pure and Applied research.
- (5) What are objectives of research?
- (6) What is experimental design?
- 2. (A) (i) Give the difference between primary data and secondary data.

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(ii) The information of weekly expenditure (in ₹) of 30 students is given below: 260, 425, 300, 175, 240, 330, 420, 235, 550, 310, 310, 550, 130, 479, 395, 505, 200, 20\$, 475, 530, 440, 305, 325, 400, 310, 485, 56, 195, 2\$0, 375. Prepare a frequency distribution of expenditure starting with class 0-100, 100-200 and so on. Also find the percentage of students having their expenditure less than ₹ 30.

OR

(i) Write the characteristics of an ideal questionnaire.

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(ii) Draw the cumulative curves of "less than" and "more than" from the following data:

Marks	0-5	5-10	10-15	15-20	20-25	25-30
No. of students	2	3	10	9	4	2

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	(B)	An	swer any Fou	r:	_						4
		(1)	The number	r of tim	ies an ob			ited in th	ie data	is called	
			(a) class	-interva	i		(b) fro	quency			
			(c) mid-	point			(d) ur	per limi	t		
		(2)	The age of	student	s is a		variable	:			
			(a) discr	ete			(b) co	ntinuou	S		
			(c) both				(d) no	ne			
		(3)	Which of the	he follo	wing is a	w examl	de of att	ribute?			
			(a) no. o	faccide	ents		(b) m	arks in a	subjec	et	
		,	(c) skill				(d) ho	eight			
		(4)	What is the	lower	boundar	point o	f the this	d class	?		
			Class		10-18	20	-28	30-38		40-48	
			Frequenc	y	2		5	4		3	
			(a) 28.5				(b) 30).5			,
			(c) 29				(d) 19)			
		(5)	The stratific	ed rand	om samp	oling is u	sed whe	n popul	ation is	5	
				geneou				terogen			
			(c) conti	nuous				screte			
		(6)	If out of 72	20000 1	people th	ere are			the d	enrees of	famalas
			while draw	ing the	pie-chart	is	(Gujarat	Study.	.com	remaies
			(a) 25					10000	•		
			(c) 90				(d) 18	30			
3.	(A) (i)	Write the m	erits an	d demer	its of m	edian an	d mode			_
	(i	ii)	Find the ma								
			formula, Ob	tain the	value o	f mode	:	owing (Jala al	id using e	mpirical
			Class	0-10		20-30	30-40	40-50	50-60	60-70	,
			Frequency	4	16	60	100	40	6	4	
							L				
	(i))	What is skey	vnece 9		OR	٠.				
	(ii	i)	What is skew Estimate v fo	*********	Explain	the typ	es of sk	ewness	by dra	wing figur	cs.

X	10	11	13	13	15	17	.20
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(B) Answer any three :

- The mean age of 4 persons is 32 years. What should be the age of 110h person so that mean age of a 12 years.

 (a) 47 (1) person so that mean age of five persons become 35 years.

 (a) 47

 - (c) 35

- None of the above (d)
- Find Harmonic mean of two observations $\frac{1}{2}$ and $\frac{1}{3}$. (2)
 - 5 (a)

(c)

- is a suitable measure of For open-ended frequency distribution, dispersion.
 - (a) Range

- Mean deviation (b)
- Quartile deviation (c)
- Variance (d)
- If $\bar{x} = 10$ and z = 12, what is the type of skewness? (4)
 - (a) Negative
- Positive (b)

Zero (c)

- None of the above (d)
- For perfectly correlated variables if one regression coefficient is 0.5 then the value of another regression coefficient is
 - (a) 0.5

(b)

(c) 2

- 0.25 (d)
- In a certain factory there are two machines for manufacturing the same (A) (i) item. The average weight in a sample of 250 items produced by machine A is found to be 120 gms. with a standard deviation of 12 gms. While the corresponding figures in a sample of 400 items from machine B are 124 and 14 respectively. Is the difference between mean weights significant at 1% level of significance?
 - Explain paired t test for difference of two means. (ii)

OR

- In a college there are 800 students of which 25 % are i-phone users. Of i-phone (i) users, 120 had Vodafone network. 320 students of the college have network other than Vodasone. Test at 5 % level of significance whether there is any relation between Phone Company and network they use?
- The production of 3 operators and 4 machines is given below. Check (ii) whether there is any significant difference in production of ope

Willetties the	- A	Most:	Produ	enon of opera	
Operator	Machine A	Macnine B	Machine C	Machine D	
	1540	1560	1560	THE DIRE D	
1		1500	1560	1540	
II	1550	1590	1580	1600	
<u></u>	1560	1590		1600	
l III	1500		1570	1560	
		3		1300	

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(B) Answer any three:

- (1) Define Null hypothesis.
- (2) Define level of significance.
- (3) Give one assumption of t distribution.
- (4) A random sample of 5 observations gave variance of 4.8 and another sample of 7 observations gave variance of 3.14. Calculate F ratio.
- (5) What is Yate's correction?

TABLE VALUES

	d.f.	5 % level	1 % level
t	9	2.262	3.250
t	10	2.228	3.169
F	(2,6)	5.14	10.92
F	(3,6)	4.76	9.78
F	(6,2)	19.33	99.33
F	(6,3)	8.94	27.91
$\frac{\chi^2}{\chi^2}$	1	3.84	6.64
.2	2	5.99	9.21
.2	4	9.49	13.28
2	5	11.07	15.09
?	6	12.59	16.81

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