

[40]

No. of Printed Pages: 03

SARDAR PATEL UNIVERSITY**MHRD Examination 2nd Semester****Thursday, Date 23-04-2015****Session: Morning Time: 10:30 am to 1:30 p.m.****Subject / Course Code: PA02CHRD04 Paper No. 04****Subject / Course Title: Research Methodology & Statistics-I****Total Marks: 70****Instruction:** Use of non-programmable calculator is allowed.**Q-1 Select the right option from the options available.****[10]**

1. Which of the following is/are research designs			
(a)	Exploratory	(b)	Descriptive
(c)	Causal	(d)	All of the above
2. What is mailed to respondents who are expected to read, understand and answer the questions?			
(a)	Schedule	(b)	Research format
(c)	Observation schedule	(d)	Questionnaire
3. Literature Review means			
(a)	Reviewing fresh data	(b)	Reviewing research 'data'
(c)	Reviewing existing research	(d)	Both (b) and (c)
4. The process of selecting group of respondents is known as			
(a)	Sample	(b)	Sampling technique
(c)	Sampling Design	(d)	None of these
5. When phenomena are grouped into categories with uniform ranges, researcher would adopt			
(a)	Interval scale	(b)	nominal scale
(c)	Ordinal scale	(d)	Ratio scale
6. Research proposal is			
(a)	Tentatively stated problem	(b)	Tentatively identified topic
(c)	Plan or blue print of research process	(d)	Tentatively stated outcome of the research

P. T. O

7. The value of correlation ranges from			
(a)	$-1 \leq r < 0$	(b)	$0 < r \leq 1$
(c)	$0 < r < 0.5$	(d)	$-1 \leq r \leq 1$
8. Which of the following represents the correct order for these five main sections of a dissertation?			
(a)	Conclusion, Introduction, Methods, Literature Review, Results	(b)	Methods, Results, Conclusion, Literature Review, Introduction
(c)	Literature Review, Results, Methods, Introduction, Conclusion	(d)	Introduction, Literature Review, Methods, Results, Conclusion
9. What do the researchers use to analyze the data?			
(a)	Statistical tools	(b)	Mathematical methods
(c)	Index numbers	(d)	Probability methods
10. Variance of the following frequency distribution is approximately equal to _____			
CLASSES		FREQUENCY	
2-4		2	
4-6		5	
6-8		4	
8-10		1	
(a)	2.5	(b)	2.9
(c)	5.0	(d)	3.9

Q-2 What is Research? Explain Research Process with suitable illustration of each step. [14]

OR

Q-2 Explain Questionnaire and criteria of a sound questionnaire. How to construct Questionnaire?

Q-3 How would you define a research design? Explain types of research design along with distinguish features of each design. [14]

OR

Q-3 What is Review of Literature? Explain Purposes & objectives of Literature review and discuss types of resources available for searching the related literature.

Q-4 What are the Measurement Scales? Explain scaling techniques with examples. [14]

OR

Q-4 What is the difference between a population and a census? Explain types of Sampling techniques in details.

Q-5 Do as directed (Any three) [18]

1. Differentiate between Qualitative and Quantitative research.
2. Write a short note on Research report components.
3. From the following data of two random variables X and Y, find the correlation by short cut method and write down the conclusion of it.

X	36	24	48	60	48	72	60	84	36	96
Y	120	100	150	180	140	200	160	220	120	240

4. The data on dividend declared in percentage is presented in the following frequency distribution table for a sample of 107 companies. Compute the variance, S. D and Coefficient of variation.

Dividend Declared	0-10	10-20	20-30	30-40	40-50	50-60	60-70
No. of companies	5	10	13	25	30	16	8

5. Following table gives the results of three different drugs administered for a disease:

A	20	30	20	15	20
B	15	25	30	20	22
C	22	25	30	25	21

Find out whether the response of the patient varies significantly for different drugs at 5% significance level. (Table value = 3.88)

6. Calculate co-efficient of rank correlation from the marks scored by 15 students in two subjects as given below

Student No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
HRD	90	75	30	56	45	90	27	32	90	30	50	52	56	40	49
Research	39	46	52	75	79	76	50	45	49	50	52	50	73	43	73

— X —