Total No. of Questions: 6

Total No. of Printed Pages:3

Enrollment No.....



Faculty of Science

End Sem (Even) Examination May-2022 SC6RD01 Research Methodology

Programme: Ph.D. (Course Work) Branch/Specialisation: All

Duration: 3 Hrs. Maximum Marks: 60

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of

.1 (N	MCQs)	should be written in full in	stead of only a, b, c or d.	
Q .1	i.	Which part of research re	eport is written at the end:	1
		(a) Title	(b) Literature review	
		(c) Bibliography	(d) Abstract	
	ii.	Purpose of doing research	h is:	1
		(a) Identification of probl	lem	
		(b) Finding solution of pr	roblem	
		(c) Both identification an	d finding solution of problem	
		(d) None of these	-	
	iii.	Research formulation is:		1
		(a) Translating and trans	forming of selected research problem	
		into scientifically res	earchable question	
		(b) Selection of literature	_	
		(c) Collection of data for		
		(d) Selection of technique	e and method	
	iv.	•	s the first page of the research report?	1
		(a) Appendix	(c) Bibliography	
		(b) Index	(d) Title Page	
	v.	Method used for data col	<u> </u>	1
		(a) Observation	(b) Previous records	
		(c) Surveys	(d) All of these	
	vi.	` '	al value and real value is termed as:	1
		(a) Precession	(b) Error	
		(c) Correlation	(d) None of these	
			` '	D. T. O

P.T.O.

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	vii.	True statement regarding sampling is: (a) Sampling is a part of population (b) Sampling saves time, money and energy (c) Sampling helps in estimating sampling error (d) All of these 	1	
	viii.	Which of the following sample, parametric test (T-test) (a) When coefficient of population is zero (b) Sample size is less than 30 (c) Sample size is large (d) Mean of the sample is in the range	is useful: 1	
	ix.	Different steps involved in writing of research report as (a) Logical analysis of the subject matter (b) Preparation of final outline (c) Preparation of rough draft (d) All of these	re: 1	
	х.	List of books referred in research report is termed as: (a) Biography (b) Bibliography (c) Foot note (d) Abstract	1	
Q.2	i.	What do you mean by qualitative research? How is if from quantitative research?	t different 3	•
	ii.	Write the differences between research area of social natural science. Discuss in brief about theoretical and e research.		,
OR	iii.	What is computational research? Describe applied research in detail.	and action 7	,
Q.3	i.	Attempt any two: Define formulation of research problem. Discuss important points which must be observed by a reselecting research problem.		
	ii.	How can you identify the gap area of research? Wri importance of literature review.	te any four 5	
	iii.	What is a literature review? Describe in brief about literature review.	writing of 5	

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Q.4	i.	Differentiate and correlate the term validity and reliability of data.	4
	ii.	What are the different tools to measure the data? Describe any three	6
		types of statistical methods for data interpretations.	
OR	iii.	List any five types of data collection methods. Discuss any 3 types	6
		of statistical methods for data interpretations.	
Q.5		Attempt any two of followings:	
	i.	Write a brief note on plagiarism checking software.	5
	ii.	Describe different types of errors with suitable examples.	5
	iii.	Give a brief account on scientific software's.	5
Q.6	i.	What is research report? Describe different types of research report.	4
	ii.	List the different types of research report. Describe the different	6
		steps involved in writing of research report.	
OR	iii.	Describe any two ways for presentation of project report.	6

Scheme of Marking



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Note: The Paper Setter should provide the answer wise splitting of the marks in the scheme below.

Q.1	i)	Which part of research report is written at the end:	1
		(b) Literature review (<) Bibliography	
	ii)	Purpose of doing research is:	1
		(c) Both identification and finding solution of problem	
	iii)	Research formulation is:	1
	.5	(a) Translating and transforming of selected research problem in to	
		scientifically researchable question	
	iv)	Which of the following is the first page of the research report?	1
		(d) Title Page	
	v)	Method used for data collection is:	1
		(d) By all the given options	
	vi)	Difference between actual value and real value is termed as:	1
		(b) Error	
	vii)	True statement regarding sampling is:	1
		(d) All of the above	
	viii)	Which of the following sample, parametric test (T-test) is useful:	1
		(b) Sample size is less than 30	
	ix)	Different steps involved in writing of research report are:	1
	1	(d) All the given options are involved	
	x)	List of books referred in research report is termed as:	1
		(b) Bibliography	
	1		
Q.2	i.	What do you mean by qualitative research? (1.5 marks)	3
	How is it different from quantitative research? (1.5 marks)		
	ii.	<u> </u>	7
	11.	Write the differences between research area of social science and	/
		natural science. (3 marks)	
		Discuss in brief about theoretical and experimental research. (4 marks)	
OR	iii.	What is computational research? (3 marks)	7
UK	111.	what is computational research: (3 marks)	

		Describe applied and action research in details. (5 marks)	
Q.3	i.	Define formulation of research problem. (1 mark) Discuss any 4 important points which must be observed by a researcher in selecting research problem. (4 marks)	5
	ii.	How can you identify the gap area of research? (3 marks) Write 4 importance of literature review. (2 marks)	5
OR	iii.	What is a literature review? (2 marks) Describe in brief about writing of literature review. (3 marks)	5
	Differentiate (2 marks) and correlate the term validity and reliability of data. (2 marks)	4	
	ii.	What are the different tools to measure the data? (1.5 marks) Describe any three types of statistical methods for data interpretations. (4.5 marks)	6
OR	iii.	List any 5 types of data collection methods. (2 marks) Discuss any 3 types of statistical methods for data interpretations. (4 marks)	6
Q.5	-	Attempt any two:	
	i.	Write a brief note on plagiarism checking software. (5 marks)	5
	ii.	Describe different types of errors with suitable examples. (5 marks)	5
	iii.	Give a brief account on scientific softwares. (5 marks)	5
Q.6	i.	What is research report? (1 mark) Describe different types of research report. (3 marks)	4
	ii.	List the different types of research report. (2 marks) Describe the different steps involved in writing of research report. (4 marks)	6
OR	iii.	Describe any two ways for presentation of project report. (3 marks + 3 marks)	6
