PARUL UNIVERSITY

PARUL INSTITUTE OF APPLIED SCIENCES MID SEMESTER INTERNAL EXAMINATION

B.Sc.– Semester – 4

Course: NUTRITION AND DIETETICS

Paper Code:11109256 Date:5/3/2020
Title of the paper: Introduction to Research Methods Time:2:00pm

Maximum Marks: 40

Instructions:

- 1. All questions are compulsory and options are given in first and second question only.
- 2. Numbers to the right of question indicate the marks of respective questions.

Q. 1	Attempt any one question of the following.				
	(i) Define Research Design, it's need, functions/goals and features of a good Research				
	Design.				
	(ii) Define hypothesis, features and functions of a good hypothesis and types of				
	hypothesis.				
Q. 2	Attempt any three questions of the following.	(12)			
	(i) Explain Solomon Four Group Design				
	(ii)Difference between Qualitative and Quantitative type of research studies				
	(iii) Write at least 2 advantages and 2 disadvantages of true experimental design.				
	(iv)Write at least 2 advantages and 2 disadvantages of quasi experimental design.				
	(v) Enlist all Quasi Experimental designs without control group. Also write the formula of				
	each.				
Q. 3	Do as directed. Attempt all five questions.	(05)			
	(i) Research studies with objective to gain familiarity with a phenomenon or to achieve				
	new insight into it are termed as				
	(ii) Research studies with objective to determine the frequency with which something				
	occurs or with which it is associated with something else are known as				
	(iii) Research studies with objective to portray accurately the characteristics of a				
	particular individual, situation, group is known as				
	(iv) Define Reliability				
	(v) Define Validity				
Q. 4	Write the correct option in your answer sheet for following 15 multiple choice questions.	(15)			

MCQ 1	Research on which of the following can raise ethical concern.					
	(A)	human trial of a new drug	(B)	sensitive topic like religion		
	(C)	blood sample collection	(D)	All of the above		
MCQ 2	Hypothesis testing studies are done to determine therelationship between					
	variables.					
	(A)	Casual	(B)	Formal		
	(C)	Causal	(D)	Personal		
MCQ 3	Control variables arevariables which are potential confounders that are					
	required to be controlled or neutralized.					
	(A)	Independent	(B)	Confounding		
	(C)	Dependent	(D)	Intermediate		
MCQ 4	Variables expressed in integer values are known as					

	(A)	Independent	(B)	Non continuous		
	(C)	Dependent	(D)	Continuous		
MCQ 5		is the formula of Untreated (Control	group with Dependent pretest and post		
	test samples					
	(A)	Intervention group O1aXO2b	(B)	Intervention group O1aO2bX O3b		
		Control group O1b O2b		Control group O1b O2b		
	(C)	Intervention group XO1	(D)	Intervention group O1aXO2b		
		Control group O2		Control group O1b O2b O3b		
MCQ 6	is an example of variable that can be controlled.					
	(A)	Gender	(B)	Height		
	(C)	Lifestyle	(D)	Age		
MCQ 7	scale have an absolute or true zero of measurement.					
	(A)	Nominal Scale	(B)	Interval Scale		
	(C)	Ordinal Scale	(D)	Ratio Scale		
MCQ 8	scale simply assigns numbers, symbols to events to label them.					
	(A)	Nominal Scale	(B)	Interval Scale		
	(C)	Ordinal Scale	(D)	Ratio Scale		
MCQ 9	In FINER criteria of research question 'E' represents					
	(A)	ethnic aspect	(B)	ethical aspect		
	(C)	education aspect	(D)	evaluation aspect		
MCQ 10	of the following is the simplest and probably the weakest quasi					
	experimental design.					
	(A)	Pretest posttest design	(B)	Control group pretest posttest design		
	(C)	Posttest only design	(D)	Interrupted time series design		
MCQ 11	CENSUS survey is conducted once in every					
	(A)	Century	(B)	Year		
	(C)	Decade	(D)	Month		
MCQ 12	Skin problems are not caused by use of makeup products.					
	State the type of hypothesis.					
	(A)	Bidirectional hypothesis	(B)	Null hypothesis		
	(C)	Alternate hypothesis	(D)	Negative hypothesis		
MCQ 13	Drug A is better than Drug B.					
	State the type of hypothesis.					
	(A)	Alternate hypothesis	(B)	Positive hypothesis		
	(C)	Null hypothesis	(D)	None of the above		
MCQ 14	If a given data is represented as 2-4, 5-7, 8-10, 11-13 then it is said to be expressed					
	according toof measurement.					
	(A)	Nominal scale	(B)	Ordinal scale		
	(C)	Interval scale	(D)	True scale		
MCQ 15	Ranking is done inof measurement					
	(A)	Interval scale	(B)	Ratio scale		
	(C)	Ordinal scale	(D)	Nominal scale		
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