2024/12

BACHELOR OF PHYSIOTHERAPY FIFTH SEMESTER RESEARCH METHODOLOGY

BPT-505

[USE OMR SHEET FOR OBJECTIVE PART]

SET

Duration: 3 hrs.

Full Marks: 70

(Objective)

Marks: 20

Time: 30 min.

 $1 \times 20 = 20$

Choose the correct answer from the following:

1. Which statement is correct in relating to research methodology The research methodology consists of complete approach aligned towards the

attainment of purpose.

The research methodology is nothing but the behaviour or tool, employed inselecting

and building research technique.

c. Research methodology covers various investigation techniques

d. All of these

2. When a hypothesis has independent and dependent variables are more than two are known as

a. Complex hypothesis

b. Alternative hypothesis

c. Empirical hypothesis

d. None of these

3. The sampling, where the population is divided into strata (or subgroups) and a random sample is taken from each subgroup is known as

a. Random sampling

b. Convenience sampling

c. Stratified random Sampling

d. None of these

4. The analysis which aims to make inferences or predictions about a larger population based on sample data is known as

a. Descriptive analysis

b. Inferential analysis

c. Diagnostic analysis

d. None of these

5. A Research Design in which researcher examines the various variables while including numbers as well as statistics in a project to analyze its findings is known as

a. Qualitative research design

b. Experimental research design

c. Quantitative research design

d. None of these

6. When the value of Pearson's Correlation coefficient is -1 then the two variables are

a. Positive & highly correlated

b. Negative & moderately correlated

c. Positive & moderately correlated

d. Negative & highly correlated

7. A distribution which deals with more than two variables is known as

a. Univariate

b. Bi-variate

c. Multivariate

d. None of these

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8.	If the two variables move in opposite direct	ion,	then the correlation between two
	variables is		Negative
	a. Positive c. Both		None of these
	Which one is the principle of sound research	h de	esign
9.		b.	Reviews inerature around the process
	a. Identifies the problems		statement All of these
	c. Describes sources of data		
0.	The source that data has been collected fro	m f	Secondary source
	a. Primary source c. Tertiary sources		None of these
	Data which are mostly non-numerical and u		
11.	known as	isuc	m, description of
	a. Quantitative		Qualitative
	c. Mixed	d.	None of these
2.	Which of the following is a non- probability	saı	mpling?
	a. Stratified random sampling	b.	judgement sampling
	c. Systematic sampling		None of these
13.	The source that index, abstract, organize, co	omp	oile, or digest other sources in literature
	review is known as a. Primary source	b.	Secondary
	c. Tertiary sources		None of these
14	The reasons to conduct a literature review	at tl	he beginning of a research project:
	a. To familiarize yourself with the current	sta	te of knowledge on your topic
	b. To ensure that you're not just repeating	wh	at others have already done
	c. To identify gaps in knowledge and unreaddress	esoi	ved problems that your research can
	d. All of these		
15	Col. C.H. In Jackson	t the	e accuracy of a measure opt.
15.	a. Validity	b.	Reliability
	c. Neutral	d.	. None of these
16.	What type of variable 'T-Shirt Size' is?		
12.00	a. Quantitative and Continuous		. Qualitative and ordinal
	c. Qualitative and nominal		. None of these
17.	Which of the following is a research object	tive	?
	a. Exploratory		. Evaluative . All of these
	e. Predictive	d	. All of these
18.	When to Write Research Objectives_	1.	. To get the idea of research project
	a. At the beginning of a research projectc. At the end of the research project	d	None of these
	C. At the cha of the resemble project		

- 19. Measurement of the consistency of reliability is
 - a. Test retest

b. Parallel forms

c. Internal consistency

- d. All of these
- To ensure that research objectives are well-defined and achievable, one has to use the SMART criteria. The abbreviation of SMART is
 - a. Specialized Measurable, Achievable, Relevant, and Time-bound.
 - b. Specific, Manageable, Attainable, Reliable and Time-bound
 - c. Specific, Measurable, Achievable, Relevant, and Time-bound.
 - d. None of these

Descriptive

Time: 2 hrs. 30 min.

Marks: 50

[Answer question no.1 & any four (4) from the rest]

a. What do you mean by Research Methodology and Research Methods.

4+6=10

- Discuss five key points on significance of Research Methodology.
- 2. a. Discuss different key characteristics of research objective.

5+5=10

- b. Write 5 objectives of the following research title: "Assessment of the Efficacy of Manual Therapy Techniques in the Management of Chronic Low Back Pain in Adult Patients: A Randomized Clinical Trial"
- What is research design? Discuss about Quantitative and Qualitative research design and their differences.

2+8=10

4. a. Discuss different sources of literature review.

8+2=10

b. Distinguish between academic research & literature review.

5. a. Discuss three different types of hypotheses.

6+4=10

- **b.** Is it true that vitamin C has the ability to cure or prevent the common cold? Or is it just a myth? Set up a hypothesis for this with significance label 0.01 and P value 0.03. Give conclusion also.
- 6. Explain Simple Random Sampling, Systematic Sampling, Qouta Sampling and Purposive sampling.

10

7. a. Give two examples of Positive Correlation and Negative Correlation.

5+5=10

b. Find the correlation coefficient between height and weight of the following data and interpret the result.

Height(C M)	155	165	145	137	167	147
Weight(K	45	56	60	47	75	58

8. Write short notes on any two

5+5=10

- a. Reliability vs validity in research
- b. Steps followed in hypothesis testing
- c. Importance of research Methodoly
- d. Convenience vs purposive sampling technique

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