REV-01 BPT/01/05

BACHELOR OF PHYSIOTHERAPY FIFTH SEMESTER RESEARCH METHODOLOGY BPT-505 [REPEAT]

JUSE OMR SHEET FOR OBJECTIVE PART

Duration: 3 hrs.

Objective

Time: 30 min. Choose the correct answer from the following: Marks: 20

Full Marks: 70

 $1 \times 20 = 20$

2024/12

SET

- 1. What type of variable 'T-Shirt Size' is?
 - a. Quantitative and Continuous
 - c. Qualitative and nominal
- b. Qualitative and ordinal
- d. None of these
- 2. Which of the following is a research objective?
 - a. Exploratory

b. Evaluative

c. Predictive

- d. All of these
- 3. When to Write Research Objectives_
 - a. At the beginning of a research project
- b. To get the idea of research project
- c. At the end of the research project
- d. None of these
- 4. 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
- 5. Measurement of the consistency of reliability is
 - a. Test retest

b. Parallel forms

c. Internal consistency

- d. All of these
- _Which measure of the following is about the accuracy of a measure opt.
 - a. Validity

b. Reliability

c. Neutral

- d. None of these
- 7. 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

	a. To familiarize yourself with the cub. To ensure that you're not just repe	view at the beginning of a research project: arrent state of knowledge on your topic eating what others have already done d unresolved <u>problems</u> that your research can
	9. When a hypothesis has independent a known asa. Complex hypothesisc. Empirical hypothesis	b. Alternative hypothesis d. None of these
1	10. The source that index, abstract, organ review is known asa. Primary sourcec. Tertiary sources	b. Secondaryd. None of these
1	Which of the following is a non- probaa. Stratified random samplingc. Systematic sampling	ability sampling? b. judgement sampling d. None of these
1	12. The sampling, where the population random sample is taken from eacha. Random samplingc. Stratified random Sampling	on is divided into strata (or subgroups) and a subgroup is known as b. Convenience sampling d. None of these
1	 13. Data which are mostly non-numerical known as_ a. Quantitative c. Mixed 	and usually descriptive or nominal in nature isb. Qualitatived. None of these
1	14. The source that data has been collecta. Primary sourcec. Tertiary sources	ed from first-hand-experience is known as b. Secondary source d. None of these
1	15. The analysis which aims to make infe based on sample data is known as_a. Descriptive analysisc. Diagnostic analysis	b. Inferential analysis d. None of these
1	16. A distribution which deals with morea. Univariatec. Multivariate	e than two variables is known as b. Bi-variate d. None of these
1	17. If the two variables move in opposite variables isa. Positivec. Both	direction, then the correlation between two b. Negative d. None of these

- 18. When the value of Pearson's Correlation coefficient is -1 then the two variables are b. Negative & moderately correlated a. Positive & highly correlated d. Negative & highly correlated c. Positive & moderately correlated 19. Which one is the principle of sound research design Reviews literature around the problem b. statement a. Identifies the problems d. All of these c. Describes sources of data 20. 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 d. None of these c. Quantitative research design **Descriptive** Marks: 50 Time: 2 hrs. 30 min. [Answer question no.1 & any four (4) from the rest] 4+6=10 1. a. What do you mean by Research Methodology and Research Methods.
 - 2. a. Discuss different key characteristics of research objective.

b. Discuss five key points on significance of Research

Methodology.

- 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"
- 3. What is research design? Discuss about Quantitative and Qualitative research design and their differences.
- 4. a. Discuss different sources of literature review. 8+2=10
 - b. Distinguish between academic research & literature review.

3

5+5=10

2+8=10

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.
- 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 (CM)	155	165	145	137	167	147
Weight (KG)	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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