



**NATIONAL INSTITUTE OF TECHNICAL TEACHERS  
TRAINING AND RESEARCH**  
(DEEMED TO BE UNIVERSITY UNDER DISTINCT CATEGORY)  
**CHANDIGARH**

**Ph.D. Entrance Examination - December 2025 Session**

Subject / Branch / Department :	Research Methodology
Roll No. :	
Candidate Name :	
Date of Examination :	

**Maximum Marks: 25 (There is no negative marking)**

- Notes:** (a) Only one option to be tick-marked out of the four options given as answer  
(b) The Candidate must put his/her signature with date at the bottom of each page  
(c) For any rough work, please use ONLY back-sides of pages which are left blank

<b>Q1. Which one of the following is primarily required, in order to pursue research?</b>	
(a)	Developing a research design
(b)	Formulating a research question
(c)	Deciding about the data analysis procedure
(d)	Formulating a research hypothesis
<b>Q2. Which of the following is not a method of Research?</b>	
(a)	Observation
(b)	Historical
(c)	Survey
(d)	Philosophical
<b>Q3. In the process of conducting research, 'Formulation of Hypothesis' is followed by.....</b>	
(a)	Statement of objectives
(b)	Analysis of data
(c)	Selection of research tools
(d)	Collection of data

<b>Q4. What is the purpose of reviewing the existing literature during research?</b>	
(a)	To make sure the researcher has a long list of references
(b)	Because without it, researcher could never reach the required word-count
(c)	To find out what is already known about the area of interest
(d)	To help researcher in general study
<b>Q5. A formal document that presents the research objectives, design of achieving these objectives, and the expected outcomes/deliverables of the study is called.....</b>	
(a)	Research tool
(b)	Research proposal
(c)	Research hypothesis
(d)	Research report
<b>Q6. Questions in which only two alternatives are possible is called.....</b>	
(a)	Multiple choice questions
(b)	Dichotomous questions
(c)	Open ended questions
(d)	Structured questions
<b>Q7. The term 'longitudinal design' means.....</b>	
(a)	A study completed far away from where the researcher lives
(b)	A study which is very long to read
(c)	A study with two contrasting cases
(d)	A study completed over a distinct period of time to map changes in social phenomena
<b>Q8. Which one of the following is known as a method of non-probability sampling?</b>	
(a)	Quota sampling
(b)	Cluster sampling
(c)	Systematic sampling
(d)	Stratified sampling
<b>Q9. Which scale of measurement has a true zero point?</b>	
(a)	Ratio
(b)	Nominal
(c)	Ordinal
(d)	Interval

<b>Q10. The split-half method is used as a test of:</b>	
(a)	Stability
(b)	Internal reliability
(c)	Inter-observer consistency
(d)	External validity
<b>Q11. What type of chart is useful for comparing values over categories?</b>	
(a)	Pie chart
(b)	Column chart
(c)	Line chart
(d)	Dot graph
<b>Q12. A variable that is manipulated in an experiment is called:</b>	
(a)	Dependent variable
(b)	Control variable
(c)	Independent variable
(d)	Intervening variable
<b>Q13. Which of the following is an essential consideration when designing response options for close-ended questions?</b>	
(a)	Providing only one response option
(b)	Using complex and technical language
(c)	Avoiding neutral options
(d)	Ensuring response categories are exhaustive and mutually exclusive
<b>Q14. The main advantage of using secondary data is that,.....</b>	
(a)	It is tailored to the specific needs of the current study
(b)	It is cost-effective and time-efficient
(c)	It ensures data accuracy and reliability
(d)	It allows for direct interaction with study participants
<b>Q15. What term refers to secondary data obtained from online databases and repositories?</b>	
(a)	Published data
(b)	Digital data
(c)	Web-based data
(d)	Open-source data

**Q16. Which term refers to the process of combining data from multiple sources for analysis?**

- (a) Data extraction
- (b) Data integration
- (c) Data validation
- (d) Data aggregation

**Q17. The primary objective of research is.....**

- (a) To confirm pre-existing beliefs
- (b) To gather data for statistical analysis
- (c) To generate new knowledge and understanding
- (d) To persuade others of personal opinions

**Q18. Why is reliability important in research?**

- (a) To ensure that the findings are generalizable
- (b) To guarantee statistical significance
- (c) To maintain consistency in measurement
- (d) To focus on a specific group

**Q19. In experimental research, what is the role of the control group?**

- (a) To receive the experimental treatment
- (b) To be compared to the experimental group and provide a baseline for comparison
- (c) To manipulate variables for practical solutions
- (d) To guarantee statistical significance

**Q20. How to judge the depth of any research study?**

- (a) By research title
- (b) By research duration
- (c) By research objective
- (d) By total research expenditure

**Q21. In what way does research support academic and intellectual growth?**

- (a) By discouraging critical thinking
- (b) By limiting exposure to diverse ideas
- (c) By fostering a culture of inquiry and learning
- (d) By promoting conformity

<b>Q22. A hypothesis is....</b>	
(a)	A conclusion drawn from an experiment
(b)	A statement of expected results
(c)	A proven fact
(d)	An unstructured question
<b>Q23. Research that is conducted to solve a specific, practical issue is known as.....</b>	
(a)	Basic research
(b)	Applied research
(c)	Theoretical research
(d)	Descriptive research
<b>Q24. The research design serves as....</b>	
(a)	A blueprint for conducting research
(b)	A method of data collection
(c)	A kind of hypothesis
(d)	A data analysis tool
<b>Q25. Plagiarism in research refers to.....</b>	
(a)	Citing correctly
(b)	Original thinking
(c)	Using others' work without credit
(d)	Conducting a literature review

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RM

Ph.D. Entrance Exam – August 2025, NITTTR Chandigarh

1.	b	14.	b
2.	a	15.	c
3.	c	16.	b
4.	c	17.	c
5.	b	18.	c
6.	b	19.	b
7.	d	20.	c
8.	a	21.	c
9.	a	22.	b
10.	b	23.	b
11.	b	24.	a
12.	c	25.	c
13.	d		

Ashish  
(ASHISH)  
29/8/25

ANSWER KEYS