

**NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND
RESEARCH**

(DEEMED TO BE UNIVERSITY UNDER DISTINCT CATEGORY)

CHANDIGARH

Ph.D Entrance Examination-January 2025

ANSWER KEY

*Research
Methodology*

Statement		Correct Answer Key	
Q1.	Prototype in research developed at the stage of:	(c)	Experimentation
(a)	Advocacy and screening		
(b)	Commercialization		
(c)	Experimentation		
(d)	Diffusion and implementation		
Q2.	Which method of research contribute most to the advancement of education psychology as a science?	(b)	Experimental method
(a)	Clinical method		
(b)	Experimental method		
(c)	Historical method		
(d)	Survey method		
Q3.	A researcher conducts a study to explore the experiences of families living in low-income neighbourhoods'. Which type of research is most suitable for this study?	(b)	Exploratory research
(a)	Descriptive research		
(b)	Exploratory research		
(c)	Diagnostic research		
(d)	Evaluation research		
Q4.	For a perfect positive Correlation, the value of "r" is.....	(b)	+ 1.0
(a)	- 1.0		
(b)	+ 1.0		
(c)	0		
(d)	0.3		
Q5.	On what basis did Jean Piaget give his theory of cognitive development of humans?	b)	Fundamental Research
(a)	Evaluation Research		
(b)	Fundamental Research		
(c)	Applied Research		
(d)	Action Research		
Q6.	The F-test.....	(c)	Can be one-tailed as well as two-tailed depending on the hypotheses
(a)	Is essentially a two-tailed test.		
(b)	Is essentially a one-tailed test.		
(c)	Can be one-tailed as well as two-tailed depending on the hypotheses.		
(d)	Can never be one tailed test.		

Q7.	What is the use of Factorial Analysis?	(b)	To understand the difference between two variables
(a)	For setting the hypotheses		
(b)	To understand the difference between two variables		
(c)	To understand the relationship between two variables		
(d)	To understand the difference between various variables		
Q8.	A researcher is interested in studying the prospects of a particular political party in an urban area. So, what tool should he prefer for the study?	(c)	Questionnaire
(a)	Rating Scale		
(b)	Interview		
(c)	Questionnaire		
(d)	Schedule		
Q9.	The main aim of the scientific method in the research field is to	(d)	Eliminate spurious relations
(a)	Improve data interpretation		
(b)	Confirm triangulation		
(c)	Introduce new variables		
(d)	Eliminate spurious relations		
Q10.	The main objective of interdisciplinary research is to	(b)	To bring out the holistic approach to research
(a)	over simplify the problem of research		
(b)	bring out the holistic approach to research		
(c)	create a new trend in research methodology		
(d)	reduce the emphasis on a single subject in the research domain		
Q11.	What do you understand by the term "Anusandhan"?	(b)	Following an aim
(a)	Goal-oriented		
(b)	Following an aim		
(c)	Attaining an aim		
(d)	Praying to achieve an aim		
Q12.	The name of the conceptual framework in which the research is carried out is known as.....	(d)	Research design
(a)	Research hypothesis		
(b)	Synopsis of Research		
(c)	Research paradigm		
(d)	Research design		
Q13.	The major attribute of Correlation Analysis is.....	(a)	Association among variables
(a)	Association among variables		
(b)	Difference among variables		
(c)	Regression among variables		
(d)	Variations among variables		
Q14.	Which one of the following is 'NOT' an example of research?	(b)	preparation of a project report for establishing a National Institute of
(a)	a study on the effect of the level of aspiration on the achievement of technician students		

(b)	preparation of a project report for establishing a National Institute of Technical Teacher Training in a country		Technical Teacher Training in a country
(c)	a survey of the job requirements of instruments engineering technicians in a country		
(d)	development of learning modules on construction management and testing their effectiveness in regard to achievement and attitudes of civil engineering students		
Q15.	The step 'Describe Methodology of Research' includes	(c)	selecting sample, selecting instruments, selecting research design, methods of analysis to be used and the procedure for conducting research
(a)	selecting research design, administering instruments, and the procedure for conducting research		
(b)	generating hypotheses, selecting research design, selecting sample, and the procedure for conducting research		
(c)	selecting sample, selecting instruments, selecting research design, methods of analysis to be used and the procedure for conducting research		
(d)	defining variables in the problems, selecting sample, selecting instruments, and the procedure of conducting research		
Q16.	Which type of research is often used to measure the characteristics of a population or phenomenon at a single point in time?	(d)	Cross-sectional research
(a)	Descriptive research		
(b)	Exploratory research		
(c)	Diagnostic research		
(d)	Cross-sectional research		
Q17.	A researcher conducts a study to assess the effectiveness of a counselling program for individuals dealing with grief. Which type of research is most suitable for this study?	(d)	Evaluative research
(a)	Descriptive research		
(b)	Exploratory research		
(c)	Diagnostic research		
(d)	Evaluation research		
Q18.	By using a coding system on note cards, a researcher can.....	(c)	cross-reference the note cards with original sources
(a)	collate references on similar topics		
(b)	order the note cards into a sequence		
(c)	cross-reference the note cards with original sources		
(d)	indicate the type of information contained on each card		
Q19.	Which of the following problem situations poses a specific rather than a general research problem?	(d)	How do two instructional methods differ in arc welding classes?
(a)	How will education affect teachers?		
(b)	How relevant are core subjects in various courses?		

(c)	How important is the role of principals in technician education?		
(d)	How do two instructional methods differ in arc welding classes?		
Q20.	Which one of the following variables is NOT a discrete variable?	(a)	Age
(a)	Age		
(b)	Gender		
(c)	Marital Status		
(d)	Place of Residence		
Q21.	Identify the variable(s) in the following research problem: 'Effect of Problem Based Learning on achievement of +2 students in Chemistry'.	(b)	Achievement and Problem Based Learning
(a)	Achievement		
(b)	Achievement and Problem Based Learning		
(c)	Effect and Achievement		
(d)	Effect, Achievement and Chemistry		
Q22.	Developing classification system for analysis is required in.....	(b)	content analysis research
(a)	case study research		
(b)	content analysis research		
(c)	sample survey		
(d)	population survey		
Q23.	If two variables are highly correlated, what do you know?	(d)	that change in one variable are accompanied by predictable change in the other
(a)	that they always go together		
(b)	high value on one variable lead to high value on other variable		
(c)	that there are no other variable responsible for the relationship		
(d)	that change in one variable are accompanied by predictable change in the other		
Q24.	Which of the following statements best defines experimental research? Research in which.....	(d)	variables are manipulated and their effects upon other variables observed
(a)	extraneous variables are removed		
(b)	random samples are mandatory		
(c)	rival hypotheses are tested.		
(d)	variables are manipulated and their effects upon other variables observed		
Q25.	Which of the following abbreviation used in footnotes and endnotes means "in the same place"?	(d) (b)	ibid
(a)	et.al.		
(b)	ibid		
(c)	op. cit		

(d) Loc.cit