

PhD Entrance Test (Jan-2026)

Date of Exam: 18-01-2026 (Sunday)

SECTION A: Research Methodology/ Aptitude

Time: 11:00 AM to 12:30 PM

Total Time Allowed: 90 mins.**Max.Marks: 35****Instructions for the Candidates**

1. The question paper shall consist of 35 Multiple Choice questions.
2. All questions are compulsory. Each question carries 1 mark.
3. There shall be no negative marking.

-
1. Three persons contributed the cost of a bike. If A, B, and C each paid Rs. 1200, Rs. 3000 and Rs. 1800 respectively, then C paid what percentage of total cost?
 - a) 10 percent
 - b) 20 percent
 - c) 30 percent
 - d) 40 percent
 2. A cycle is sold at some price. By selling cycle at $\frac{2}{3}$ of that price one loses 10%, find the profit percent at the original price.
 - a) 15 %
 - b) 25%
 - c) 35%
 - d) 45%
 3. A train is 800 meters long and running at a constant speed of 60 km/hour. If it takes 120 seconds to cross the bridge, find length of bridge:
 - a) 1510
 - b) 1800
 - c) 1902
 - d) 1200

4. The banker's discount on a sum of money for 18 months is Rs. 600 and true discount on the same sum for 3 years is Rs. 750. The rate percentage is:
- a) 14
 - b) 22
 - c) 18
 - d) 20
5. Today is Monday in a leap year. The day after 68 days will be:
- a) Tuesday
 - b) Friday
 - c) Monday
 - d) Saturday
6. If majority of spoons are forks, then which statement is true?
- a) A majority of forks are spoons
 - b) A minority of forks are spoons
 - c) a 'true' and b 'false'
 - d) Both 'a' and 'b' are true
7. A and B start from a fixed point. A moves 4 km to South, then turns left and moves 3 km. B moves 3 km towards West and turns right and goes 4 km further. How far apart they are now?
- a) 6 km
 - b) 10 km
 - c) 9 km
 - d) None of Above
8. If in a code, 'PERFECT' is written as 116 and then 'DIVORCE' will be written as:
- a) 113
 - b) 112
 - c) 117
 - d) 111

9. Pritam said, "The lady is wife of the grandson of my mother". How is Pritam related to lady:

- a) Father
- b) Husband
- c) Father-in-law
- d) Brother

10. In a Pie-chart, one percent accounts for how many degrees of circle:

- a) 1.44
- b) 2.7
- c) 3.6
- d) 1.8

11. 'Stub' in a table is:

- a) Heading of Column
- b) Heading of Row
- c) Title of table
- d) None of above

12. Which of the following referencing style is more appropriate in social sciences:

- a) APA
- b) ILI
- c) MLA
- d) None of the above

13. Which of the following is not a quantitative method of social research:

- a) Case-Study
- b) Empirical
- c) Survey
- d) None of Above

14. The closeted population can be dealt with which sampling method:

- a) Convenience
- b) Judgemental
- c) Quota
- d) Snowball

15. Which of the following is a type of review of literature:

- a) Chronological
- b) Thematic
- c) Meta-Analysis
- d) All of Above

16. Which out of these is the part of data-processing?

- a) Report Writing
- b) Review of literature
- c) Coding
- d) Analysis and interpretation

17. Survey method can't involve application of this method:

- a) Observation
- b) Historical
- c) Interview
- d) Questionnaire

18. The Ph.D. thesis consulted by you in your university library represents:

- a) Primary source of data
- b) Published data
- c) Unpublished secondary data
- d) None of Above

19. Which of the following is probability sampling:

- a) Systematic
- b) Quota
- c) Judgemental
- d) Convenience

20. Which of the following is not a plagiarism detection checker:

- a) Grammarly
- b) Copyscape
- c) Turnitin
- d) Latex

21. A hypothesis indicating no relationship between variables is:

- a) Alternative
- b) Null
- c) Associative
- d) None of Above

22. Which method out of these avoid personal contact of researcher and respondent:

- a) Questionnaire
- b) Schedule
- c) Interview
- d) None of Above

23. A researcher wants to study the familiarity of political parties in a large region. Region is known for high illiteracy. Which method is suitable to collect data:

- a) Questionnaire
- b) Schedule
- c) Case-Study
- d) Historical

24. Which of the following is not a sample size determination method in social research:

- a) Cochran's Method
- b) Yamane's Method
- c) Slovin's Method
- d) Marshall's method

25. Which study is called one-shot study:

- a) Longitudinal
- b) Panel
- c) Cross Sectional
- d) None of above

26. Which of the following is broader concept out of all given below:

- a) Foot Notes
- b) Reference
- c) End Notes
- d) Bibliography

27. Which of the following data scale contain true zero:

- a) Interval
- b) Ratio
- c) Ordinal
- d) Nominal

28. In research, moving from general/universal to particular is called the use of:

- a) Induction
- b) Deduction
- c) Reasoning
- d) None of above

29. Ogives can be used to find graphically:

- a) Mode
- b) Mean
- c) Range
- d) Median

30. Descriptive research focuses upon:

- a) To find causal relationship between variables
- b) To find all possible solutions to problem
- c) To study the given problem in structured manner
- d) None of above

31. Which of the following is not 'pure' research:

- a) Theoretical
- b) Basic
- c) Fundamental
- d) Applied

32. Which is the source of a research problem:

- a) Daily experiences
- b) Curiosity about unknown
- c) Past research
- d) All of above

33. Which of the following is not a necessary part of research report:

- a) Objectives
- b) References
- c) Review of literature
- d) Source of Research Problem

34. In quantitative research, the trend of variable can be caught using:

- a) Mean
- b) Correlation
- c) Time-Series
- d) Index No's

35. 'Non-doctrinal' research is also known as:

- a) Empirical
- b) Non-empirical
- c) Conventional
- d) None of Above



**Jagat Guru Nanak Dev
Punjab State Open University, Patiala**

**PhD Entrance Test
(January 2026)**

Subject Name: Research Methodology/Aptitude

Q.No	Ans	Q.No	Ans	Q.No	Ans
1	C	13	A	25	C
2	C	14	D	26	D
3	D	15	D	27	B
4	D	16	C	28	B
5	D	17	B	29	D
6	D	18	C	30	C
7	B	19	A	31	D
8	A	20	D	32	D
9	C	21	B	33	D
10	C	22	A	34	C
11	B	23	B	35	A
12	A	24	D		