**Roll No. ……** **Total Pages: 08**

# 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.

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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 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

ਜਗਤ ਗੁਰੂ ਨਾਨਕ ਦੇਵ
ਪੰਜਾਬ ਸਟੇਟ ਓਪਨ ਯੂਨੀਵਰਸਿਟੀ
ਪਟਿਆਲਾ

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

## PhD Entrance Test
## (January 2026)

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## 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 | | |