

Ph.D. Entrance Examination January -2025

Research Methodology

Answer Key

1. b) Systematically solve the research problem
2. b) Develop theories
3. c) Random
4. b) Problem formulation
5. a) Clearly defines the purpose of the study
6. a) Statements of specific goals to be achieved
7. a) Provide direction for data collection and analysis
8. c) Problem formulation, hypothesis testing, data collection, data analysis
9. c) After data collection
10. a) A detailed plan for conducting research
11. b) Define the problem and suggest hypotheses
12. b) Describe characteristics of a phenomenon
13. b) A tentative statement about the relationship between variables
14. b) There is no significant effect or relationship
15. c) Determining whether to accept or reject the null hypothesis
16. b) A subset of the population
17. c) Stratified sampling
18. a) Measure attitudes or opinions
19. b) Data collected directly from the source
20. b) Data collected from existing sources
21. b) Understanding behaviors and actions
22. a) A list of questions used to collect data
23. a) Gathering detailed and in-depth information
24. c) They may suffer from response bias
25. b) Describe and summarize data
26. b) Infer population parameters from sample statistics
27. c) Assess the significance of results
28. b) Using a predetermined set of categories for recording observations
29. b) Collecting large amounts of data in a short time
30. c) They can reach a large audience quickly
31. b) Provide their own answers in detail
32. a) Follows a set sequence of questions
33. b) Ensure questions are clear and effective
34. a) Reduce a large number of variables into fewer factors
35. b) Predicting the value of a dependent variable based on one or more independent variables

Ph.D. Entrance Examination January -2025

- 36. a) Compare the means of three or more groups
- 37. a) Selecting random samples from different subgroups
- 38. b) It ensures that every member of the population has an equal chance of being selected
- 39. a) The intensity of respondents' attitudes
- 40. b) Collecting data over an extended period
- 41. b) Used to collect data at a single point in time
- 42. a) Using multiple methods to collect data on the same topic
- 43. b) An in-depth analysis of a single case or situation
- 44. a) Group similar objects into clusters
- 45. b) Analyzing data points collected over a period of time
- 46. a) Understanding the direct and indirect relationships between variables
- 47. b) Manipulating one or more variables to determine their effect
- 48. b) Random assignment of subjects is not possible
- 49. a) Selecting subjects that are easiest to access
- 50. a) Studying hidden or hard-to-reach populations

Ph.D. Entrance Examination January -2025

Automotive Studies Answer Key

1 (a)	2 (b)	3 (c)	4 (a)	5 (d)	6 (c)
7 (a)	8 (a)	9 (a)	10 (a)	11 (c)	12 (a)
13 (a)	14 (a)	15 (b)	16 (b)	17 (a)	18 (c)
19 (b)	20 (a)	21 (d)	22 (a)	23 (c)	24 (a)
25 (b)	26 (b)	27 (c)	28 (a)	29 (c)	30 (b)
31 (c)	32 (a)	33 (b)	34 (b)	35 (c)	36 (d)
37 (c)	38 (d)	39 (c)	40 (c)	41 (b)	42 (a)
43 (a)	44 (c)	45 (d)	46 (d)	47 (a)	48 (c)
49 (b)	50 (d)				

Ph.D. Entrance Examination January -2025

Computer Science Engineering Answer Key

Q No	Answer Key
1	b
2	d
3	d
4	b
5	a
6	b
7	a
8	b
9	a
10	b
11	b
12	b
13	b
14	b
15	b
16	c
17	a
18	c
19	c
20	c
21	d
22	a
23	a
24	d
25	a

Q No	Answer Key
26	d
27	c
28	a
29	c
30	d
31	a
32	b
33	b
34	c
35	b
36	a
37	a
38	a
39	b
40	d
41	b
42	a
43	d
44	a
45	a
46	b
47	b
48	b
49	d
50	d

Ph.D. Entrance Examination January -2025

Industry 4.0 Answer Key

1.	D.
2.	A.
3.	C.
4.	A.
5.	A.
6.	B.
7.	C.
8.	C.
9.	D.
10.	A.
11.	B.
12.	C.
13.	B.
14.	C.
15.	C.
16.	A.
17.	D.
18.	A.
19.	B.
20.	D.
21.	A.
22.	C.
23.	C.
24.	A.
25.	C.
26.	A.
27.	B.
28.	B.
29.	B.
30.	A.
31.	B.
32.	A.
33.	C.

34.	D.
35.	C.
36.	B.
37.	C.
38.	C.
39.	A.
40.	B.
41.	C.
42.	D.
43.	A.
44.	B.
45.	C.
46.	C.
47.	B.
48.	D.
49.	A.
50.	B.

Ph.D. Entrance Examination January -2025

Mechanical Engineering Answer Key

1. C	26. A
2. B	27. B
3. D	28. B
4. C	29. C
5. D	30. D
6. B	31. B
7. A	32. D
8. A	33. B
9. D	34. D
10. C	35. B
11. C	36. A
12. C	37. C
13. B	38. D
14. D	39. B
15. A	40. B
16. B	41. B
17. C	42. D
18. B	43. A
19. D	44. A
20. B	45. B
21. A	46. C
22. C	47. C
23. D	48. D
24. A	49. A
25. C	50. C

Ph.D. Entrance Examination January -2025

Electrical Engineering Answer Key

QUESTIONS	ANSWERS
Q1	B
Q2	A
Q3	C
Q4	D
Q5	C
Q6	C
Q7	C
Q8	D
Q9	C
Q10	C
Q11	A
Q12	C
Q13	A
Q14	D
Q15	C
Q16	A
Q17	A
Q18	B
Q19	A
Q20	C
Q21	D
Q22	B
Q23	D
Q24	B
Q25	C

QUESTIONS	ANSWERS
Q26	D
Q27	A
Q28	C
Q29	A
Q30	D
Q31	C
Q32	A
Q33	B
Q34	D
Q35	A
Q36	A
Q37	B
Q38	A
Q39	B
Q40	A
Q41	D
Q42	D
Q43	B
Q44	A
Q45	C
Q46	B
Q47	A
Q48	C
Q49	A
Q50	B

Ph.D. Entrance Examination January -2025

Hotel Management Answer Key

- Answer 01: b) Recommending higher-priced rooms or services
Answer 02: b) To predict future room occupancy and revenue
Answer 03: a) Track guest purchases and payments
Answer 04: b) Adjusting prices based on demand
Answer 05: b) Cleaning guest rooms
Answer 06: b) Cleaning guest rooms
Answer 07: c) To handle emergency situations effectively
Answer 08: b) To store linens, towels, and uniforms
Answer 09: b) To schedule staff shifts and duties
Answer 10: b) Using bleach and detergent
Answer 11: b) Prevent infestations and maintain hygiene
Answer 12: b) The ideal level of stock to maintain
Answer 13: b) Room service
Answer 14: b) To plan staff shifts and room cleaning activities
Answer 15: b) Ensure clear communication among staff before and after shifts
Answer 16: d) Thermal carafe
Answer 17: b) Organized into courses like appetizers, entrees, and desserts
Answer 18: b) Plated service
Answer 19: a) Serve alcoholic and non-alcoholic beverages
Answer 20: a) Selecting and pricing dishes based on guest preferences and cost
Answer 21: c) Ensure quality control and minimize losses
Answer 22: b) Serving food to guests
Answer 23: c) Frying
Answer 24: a) Preparing and organizing ingredients before cooking
Answer 25: a) To ensure a balance of flavors, nutritional value, and cost control
Answer 26: b) Breads
Answer 27: b) Identifying and preventing food safety hazards
Answer 28: a) The invention of the oven
Answer 29: b) To prevent foodborne illnesses
Answer 30: c) To ensure passenger comfort and resolve issues
Answer 31: b) To provide information and assist guests during tours
Answer 32: d) All of the above
Answer 33: c) The formalization of elaborate techniques and sauces
Answer 34: a) Brigade system
Answer 35: b) Rich in protein and fiber
Answer 36: b) Pâté en croute
Answer 37: d) White toast bread
Answer 38: b) Sugar and heat
Answer 39: a) Kadhi
Answer 40: b) Conduct hazard analysis
Answer 41: c) Fine dining restaurant
Answer 42: a) Bain-marie
Answer 43: b) Empathetic, attentive, and courteous approach
Answer 44: d) All of the above
Answer 45: a) 4-7°C

Ph.D. Entrance Examination January -2025

Answer 46: b) Regularly updating the menu based on customer feedback and seasonal ingredients

Answer 47: b) Drinking water during the meal

Answer 48: b) Pickling

Answer 49: d) Baking in a conventional oven

Answer 50: c) Dum Cooking