



RESEARCH METHODOLOGY/LOGICAL/ANALYTICAL/LANGUAGE APTITUDE

(Common to All Disciplines)

Ph.D. ENTRANCE TEST (PET-2023)

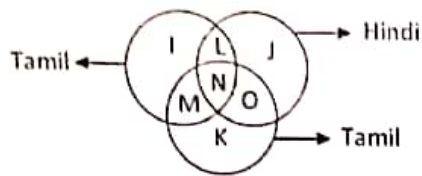
Roll No. ...., Date: ..... Signature of the Candidate: .....

M.M. = 50 [each question is of 1.25 marks]

- Q 1. Which is the main objective of research?  
(A) To review the literature  
(B) To summarize what is already known  
(C) To get an academic degree  
(D) To discover new facts or to make fresh interpretation of known facts
- Q 2. Sampling error decreases with the:  
(A) decrease in sample size  
(B) increase in sample size  
(C) process of randomization  
(D) process of analysis
- Q 3. The principles of fundamental research are used in:  
(A) action research (B) applied research  
(C) philosophical research (D) historical research
- Q 4. Which of the following statements is true in the context of the testing of a hypothesis?  
(A) It is only the alternative hypothesis that can be tested.  
(B) It is only the null hypothesis that can be tested.  
(C) Both the alternative and the null hypotheses can be tested.  
(D) Both the alternative and the null hypotheses cannot be tested.
- Q 5. Which of the following statements is not true in the context of participatory research?  
(A) It recognizes knowledge as power.  
(B) It emphasises on people as experts.  
(C) It is a collective process of enquiry.  
(D) Its sole purpose is production of knowledge.
- Q 6. The research that aims at immediate application is:  
(A) Action research. (B) Empirical research.  
(C) Conceptual research. (D) Fundamental research.
- Q 7. A hypothesis is a:  
(A) Law (B) Postulate  
(C) Canon (D) Supposition
- Q 8. Controlled group condition is applied in:  
(A) survey research (B) historical research  
(C) experimental research (D) descriptive research
- Q 9. Workshops are meant for:  
(A) Giving lectures (B) Multiple target groups  
(C) Showcase new theories (D) Hands-on training or experience
- Q 10. Which one of the following is a research tool?  
(A) Graph (B) Illustration  
(C) Questionnaire (D) Diagram
- Q 11. If I were you, I ..... buy that laptop. It's too much expensive. Fill in the blank with correct option:  
(A) won't (B) shan't  
(C) wouldn't (D) would

- Q 12. The policeman asked the victim of a theft, "What did you .....?". Fill in the blank with correct option:  
 (A) loose (B) lose  
 (C) loss (D) louse
- Q 13. Identify the correct preposition to complete the sentence: The cat jumped ..... the table ..... the window.  
 (A) onto, through (B) on, into  
 (C) over, towards (D) off, beneath
- Q 14. What is the significance of peer review in the research process?  
 (A) To ensure the research is conducted with a large sample size  
 (B) To involve multiple researchers in the data collection process  
 (C) To evaluate the quality and validity of the research by experts in the field  
 (D) To obtain funding for the research project
- Q 15. In academic writing, what is the purpose of using citations and references?  
 (A) To demonstrate the researcher's knowledge of the topic  
 (B) To acknowledge the work of other scholars  
 (C) To increase the word count of the research paper  
 (D) To ensure the research conforms to a specific format
- Q 16. Conferences are meant for:  
 (A) Multiple target groups (B) Group discussions  
 (C) Showcasing new research (D) All of these
- Q 17. Ex post facto research means:  
 (A) The research is carried out after the incident  
 (B) The research is carried out prior to the incident  
 (C) The research is carried out along with the happening of an incident  
 (D) The research is carried out keeping in mind the possibilities of an incident
- Q 18. Research ethics do not include:  
 (A) Honesty (B) Subjectivity  
 (C) Integrity (D) Objectivity
- Q 19. Which of the following are the basic rules of APA style of referencing format?  
 (i) Italicize titles of shorter works such as journal articles or essays.  
 (ii) Invert authors' names (last name first).  
 (iii) Italicize titles of longer works such as books and journals.  
 (iv) Alphabetically index reference list.  
 Select the correct answer from the codes given below:  
 (A) (i) and (ii) (B) (ii), (iii), and (iv)  
 (C) (iii) and (iv) (D) (i), (ii), (iii), and (iv)
- Q 20. Which of the following statements are mutually inconsistent?  
 I. Mostly poets are not egoistic.  
 II. Mostly poets are humble.  
 III. Some poets are egoistic.  
 IV. Some poets are not non-egoistic.  
 (A) I and IV (B) II and III  
 (C) I and III (D) III and IV
- Q 21. Which of the following statements are mutually contradictory?  
 I. All flowers are not fragrant.  
 II. Most flowers are not fragrant.  
 III. None of the flowers are fragrant.  
 IV. Most flowers are fragrant.  
 (A) I and II (B) I and III  
 (C) II and III (D) III and IV

Q 22. Study the diagram and identify the people who can speak only one language?

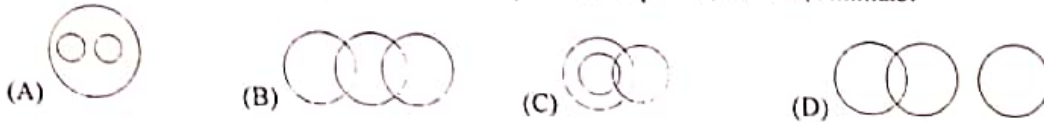


- (A)  $L + M + O$       (B)  $K + J + I$       (C) K      (D) I

Q 23. In the given options, 4 pairs are given. Choose a pair in which the words are differently related.

- (A) Bottle : Wine      (B) Cup : Tea      (C) Pitcher : Water      (D) Ball : Bat

Q 24. Which of the following diagrams correctly represents Elephants, Wolves, Animals?



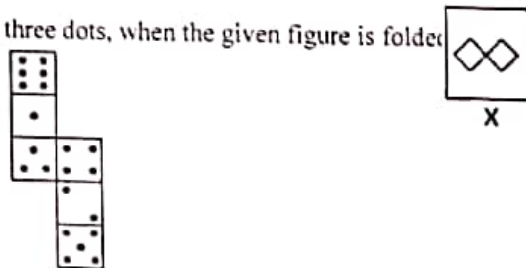
Q 25. Mohan travels 5 kms West wards, then he turns left and travels 3 kms and further turns left again and travels 9 kms. How far is he from the starting point?

- (A) 15 kms      (B) 5 kms      (C) 4 kms      (D) 21 kms

Q 26. I went 20 m to the south, then I turned North and covered 10 m and then West and covered 10 m. In which direction am I from my house?

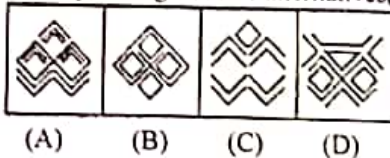
- (A) North-East      (B) South-West      (C) East      (D) West

Q 27. How many dots lie opposite to the face having three dots, when the given figure is folded into a cube?

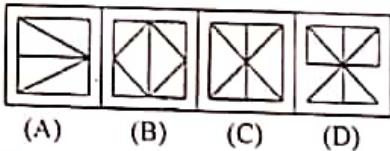


- (A) 2 dots      (B) 3 dots      (C) 4 dots      (D) 6 dots

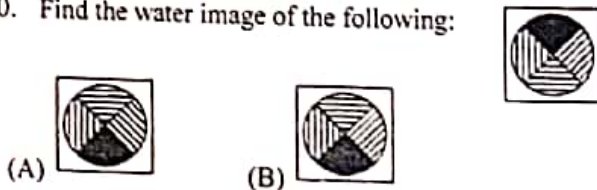
Q 28. Identify among the four alternatives, in which the given figure (X) is embedded.



Q 29. Identify among the four alternatives, in which the given figure (X) is embedded.

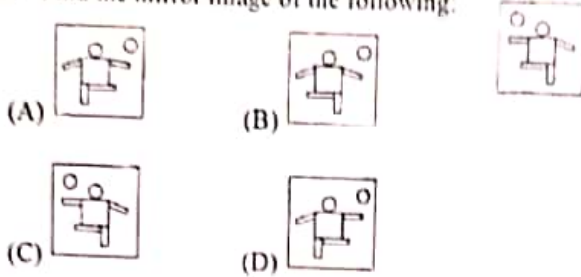


Q 30. Find the water image of the following:

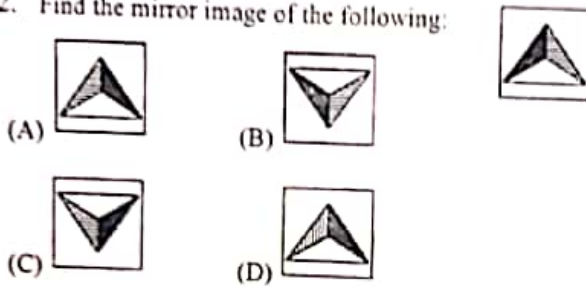




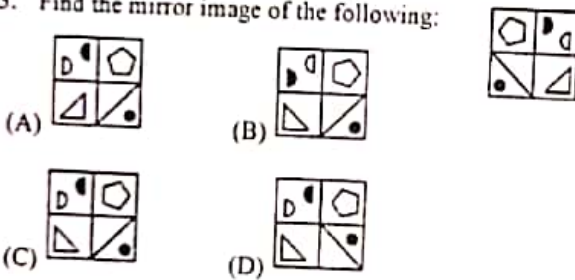
Q 31. Find the mirror image of the following:



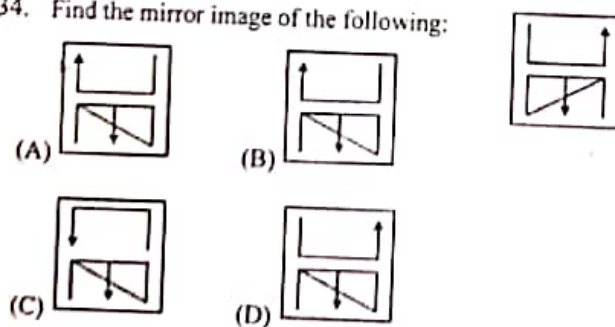
Q 32. Find the mirror image of the following:



Q 33. Find the mirror image of the following:



Q 34. Find the mirror image of the following:



Q 35. D is brother of B. M is brother of B. K is father of M. T is the wife of K. How is B related to T?

- (A) Son (B) Daughter (C) Son or Daughter (D) Data Inadequate

Q 36. Pointing to Sneha in the photograph, Lily said, "His mother has a grandchild whose father is my brother". How is Sneha related to Lily?

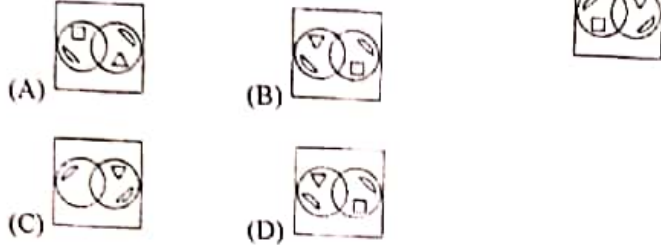
- (A) Sister (B) Sister-in-law (C) Daughter (D) Mother

Q 37. From the following figures of dice, find which number will come in place of '?'.

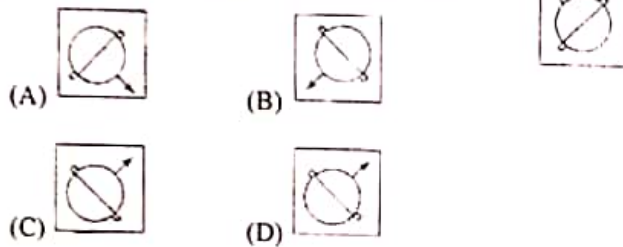


- (A) 4                      (B) 5                      (C) 2                      (D) 3

Q 38. Find the mirror image of the following:



Q 39. Find the mirror image of the following:



Q 40. Choose the alternative which most closely resembles the water-image of: NUCLEAR

- (A) RƆƆLƆUJ      (B) ʍUƆTƎUƆ      (C) ʍUƆTƎUƆ      (D) ʍUƆTƎUƆ



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Answer Key:

Q. 1: (D)	Q. 11: (C)	Q. 21: (D)	Q. 31: (D)
Q. 2: (B)	Q. 12: (B)	Q. 22: (B)	Q. 32: (A)
Q. 3: (B)	Q. 13: (A)	Q. 23: (D)	Q. 33: (C)
Q. 4: (B)	Q. 14: (C)	Q. 24: (A)	Q. 34: (A)
Q. 5: (D)	Q. 15: (B)	Q. 25: (B)	Q. 35: (C)
Q. 6: (A)	Q. 16: (D)	Q. 26: (B)	Q. 36: (B)
Q. 7: (D)	Q. 17: (A)	Q. 27: (D)	Q. 37: (D)
Q. 8: (C)	Q. 18: (B)	Q. 28: (A)	Q. 38: (B)
Q. 9: (D)	Q. 19: (B)	Q. 29: (C)	Q. 39: (C)
Q. 10: (C)	Q. 20: (C)	Q. 30: (A)	Q. 40: (D)

*Ranjit*