IB Security Assistant 2025 - Practice Test Quantitative Aptitude & Reasoning/Logical Ability - 50 Questions Instructions: Choose the best answer for each question. Total Questions: 50 QUANTITATIVE APTITUDE SECTION Number System & Simplification 1. What is the value of $25 \times 4 \div 5 + 12 - 8$? A) 24 B) 26 C) 28 D) 30 2. Simplify: $(64 \times 25) \div 16?$ A) 10 B) 15 C) 20 D) 25 3. Find the value of $3^3 + 2t - 5^2$? A) 18 B) 20 C) 22 D) 24 Percentages & Averages 4. If 25% of a number is 45, what is 60% of that number? A) 108 B) 110 C) 112 D) 115 5. The average of 5 numbers is 20. If one number is removed, the average becomes 18. What is the removed number? A) 25 B) 26 C) 27 D) 28 6. A student scored 80%, 75%, and 85% in three tests. What percentage should he score in the fourth test to have an average of 82%? A) 88% B) 89%

C) 90%D) 92%

Profit, Loss & Discount

B) 55 km/hC) 60 km/h

A) 1780 B) 1800 C) 1820 D) 1850 8. If the cost price is 1400 and profit is 25%, what is the selling price? A) 1480 B) 1500 C) 1520 D) 1540 Simple & Compound Interest 9. Find the simple interest on 12000 for 3 years at 8% per annum? A) 1460 B) 1480 C) 1500 D) 1520 10. What will be the compound interest on 11000 for 2 years at 10% per ann A) 1200 B) 1210 C) 1220 D) 1230 Ratio, Proportion & Partnership 11. If A:B = 3:4 and B:C = 2:3, find A:B:C? A) 3:4:6 B) 6:8:12 C) 9:12:18 D) 3:4:3 12. A and B invest 13000 and 14000 respectively for 1 year. If profit is 1210 A) 1800 B) 1900 C) 11000 D) 11100 Time, Speed & Distance; Time & Work 13. A car travels 240 km in 4 hours. What is its speed? A) 50 km/h

7. An article is sold for 1720 after giving a discount of 10%. What was the

14. A can complete a work in 12 days, B in 15 days. How many days will they take together? A) 6 B) 6.67 C) 7 D) 7.5
15. Two trains running in opposite directions with speeds 50 km/h and 70 km/h cross each other in 12 seconds. What is the sum of their lengths? A) 400m B) 450m C) 500m D) 550m
Mensuration & Geometry
16. Find the area of a circle with radius 7 cm using À = 22/7? A) 154 sq cm B) 144 sq cm C) 164 sq cm D) 174 sq cm
17. What is the perimeter of a rectangle with length 12 cm and breadth 8 cm? A) 40 cm B) 42 cm C) 44 cm D) 46 cm
Mixture & Alligation
18. In what ratio should tea at 160 per kg be mixed with tea at 180 per k A) 1:1 B) 1:2 C) 2:1 D) 3:2
 19. A mixture contains milk and water in the ratio 3:2. If 5 liters of water is added, the ratio becomes 3:3. Find the original quantity of mixture? A) 20 liters B) 25 liters C) 30 liters D) 35 liters
Data Interpretation
20. In a bar chart, if the height of bar A is 40 units and represents 200 items, what do 60 units represent? A) 250 items

D) 65 km/h

B) 300 items C) 350 items D) 400 items	
21. A pie chart shows 30% for section A. If the total value is 1200, what is the value of section A? A) 300 B) 320 C) 350 D) 360	
22. In a line graph, if values increase from 50 to 80 over 2 years, what is the percentage increase?A) 30%B) 40%C) 50%D) 60%	
23. A table shows sales for Jan (100), Feb (150), Mar (200). What is the average monthly sale? A) 140 B) 145 C) 150 D) 155	
Probability, Permutation & Combination	
24. What is the probability of getting a head when a fair coin is tossed? A) 1/4 B) 1/3 C) 1/2 D) 2/3	
REASONING/LOGICAL ABILITY SECTION	
Coding-Decoding	
25. If COMPUTER is coded as RFUVQNPC, how is PROBLEM coded? A) MELBORP B) SPMCOFN C) CQPCMFN D) MCOLREP	
26. In a certain code, FRIEND is written as GSJFOE. How is MOTHER written? A) NPUIFS B) NPUTFS C) NPUIFS D) NQPUFS	
27. If CAT = 312, DOG = 416, what is the code for BIRD? A) 2189	

B) 2918
C) 1829
D) 8192
Blood Relations
28. A is B's sister. C is B's mother. D is C's father. E is D's mother. How is A related to D?A) GranddaughterB) DaughterC) SisterD) Nices
D) Niece
29. Pointing to a woman, Ram said 'She is the daughter of my wife's mother-in-law'. How is the woman related to Ram? A) Wife B) Sister-in-law C) Mother D) Daughter
Syllogism
30. All books are papers. Some papers are files. Conclusion: Some books are files? A) True B) False C) Cannot be determined D) Partially true
31. No cat is a dog. All dogs are animals. Conclusion: No cat is an animal? A) True B) False C) Cannot be determined D) Partially true
Direction & Distance
32. A man walks 10m north, then 10m east, then 10m south. How far is he from the starting point? A) 10m east B) 10m west C) 10m north D) 10m south
33. If you are facing north and turn 90° clockwise, then 180°, which direction are you facing?A) NorthB) SouthC) EastD) West
Series (Numbers/Alphabet)

34. Find the next term: 2, 6, 18, 54, ? A) 108 B) 162 C) 216 D) 324
35. Complete the series: ACE, BDF, CEG, ? A) DFH B) DEH C) CFH D) DGI
36. What comes next: Z, Y, X, W, ? A) V B) U C) T D) S
Classification/Odd one out
37. Find the odd one: Dog, Cat, Lion, Table? A) Dog B) Cat C) Lion D) Table
38. Which number is different: 121, 144, 169, 180? A) 121 B) 144 C) 169 D) 180
Puzzles & Arrangements
39. Five friends A, B, C, D, E are sitting in a row. A is not at either end. B is to the immediate left of E. Who can be at the left end? A) A or D B) C or D C) B or C D) A or B
 40. In a code, if 1=A, 2=B, 3=C, what does 7-15-18-12-4 represent? A) WORLD B) GLOBE C) EARTH D) SPACE

 41. Six people are sitting around a circular table. If A sits opposite to D, and B sits to the immediate right of A, where does C sit? A) Opposite to B B) Between D and E C) Cannot be determined D) Next to D
42. If ROSE is 1234 and POSE is 5234, what is CODE? A) 6374 B) 6724 C) 7234 D) Cannot be determined
Mirror/Water Images 43. What is the mirror image of 'PROBLEM'? A) M -!C d O /§ü B) MELBORQ C) QROBLEM D) M E L B O ? >
Data Sufficiency 44. What is the age of Ravi? Statement 1: Ravi is 5 years older than Savi. Statement 2: Savi is 20 years old? A) Statement 1 alone sufficient B) Statement 2 alone sufficient C) Both statements needed D) Neither sufficient
Venn Diagrams 45. In a group of 50 students, 30 like cricket, 25 like football, and 10 like both. How many like neither? A) 5 B) 10 C) 15 D) 20
Additional Questions 46. If MACHINE is coded as 13-1-3-8-9-14-5, what is the code for ENGINE? A) 5-14-7-9-14-5 B) 5-14-20-9-14-5 C) 5-14-9-9-14-5 D) 5-14-7-8-14-5
47. Complete the analogy: Book : Author :: Painting : ? A) Canvas

- B) Brush
 C) Artist
 D) Color
- 48. In a certain language, STRONG is TSRONQ. How is PEOPLE written?
- A) EOELPP
- B) EOPLEP
- C) PEOPEL
- D) LPOEPE
- 49. If the day before yesterday was Thursday, what day will it be day after tomorrow?
- A) Sunday
- B) Monday
- C) Tuesday
- D) Wednesday
- 50. A clock shows 3:15. What is the angle between the hour and minute hands?
- A) 0°
- B) 7.5°
- C) 15°
- D) 22.5°

ANSWER KEY

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