

# GENERAL APTITUDE TEST

Date of Examination: 19.7.2019

Time: 2 Hrs

Name of the Candidate:								
Application No:								

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Candidate's Signature

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Invigilator's Signature

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## Instructions to Candidates:

1. Use of Calculators, cell phones and other electronic devices IS NOT permitted inside Examination Hall.
2. Candidate should carefully read the instructions on Question paper and mark correct entries in the Square bracket provided against each question
3. For each question, choose the correct response answer from out of four available options.
4. *Each Correct answer carries one Mark and each wrong answer carries negative of 0.25 Mark. Marking more than one choice as answer will be treated as wrong answer.*
5. Clarifications on questions are not permitted.
6. Rough work can be done in any blank space provided in the Question booklet only. Rough work should not be done anywhere except at the space provided at end of the question paper.
7. No candidate is allowed to leave the examination hall till the examination is over.

# GENERAL APTITUDE TEST

Date of Examination: 18.11.2025

Page No.:

Name of the Candidate	
Application No.	

Candidate's Signature

Supervisor's Signature

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**GENERAL APTITUDE TEST**

1. Fill in the blanks choosing from: a, an, the, - (no article) [ ]  
\_\_\_\_\_ person living in \_\_\_\_\_ Europe is called \_\_\_\_\_ European.  
(A) The, -, an      (B) A, the, , an      (C) A, -, a      (D) A, the, an
2. There are nine coins, eight coins are of same weight; but one is light. If you have a balance with weights, find the LEAST number of weighments required to find the light coin? [ ]  
(A) 2      (B) 3      (C) 8      (D) 5
3. A pole is 27 m long. It is bent somewhere in the middle such that the top of pole touched ground 9m away from the base of the pole. The HEIGHT (h) at which the pole bent [ ]  
(A) Cannot be calculated with given data  
(B) Is less than 10 m  
(C) Is such that  $10\text{ m} \leq h \leq 14\text{ m}$   
(D) Is more than 14 m
4. There is one light bulb on a staircase with which can be operated by a bottom switch or atop switch. What is the logical gate that best describes the relationship between the switches? [ ]  
(A) An OR gate      (B) A NOR gate      (C) An EOR gate      (D) A NAND gate
5. With an interest rate of 10%, compound interest compounded annually is greater than simple interest by Rs. 200 after 2 years. The Principal amount in rupees is \_\_\_\_\_. [ ]  
(A) 2000      (B) 20000      (C) 10000      (D) 4000
6. The month of January of a certain year had exactly 4 Mondays and 4 Fridays. Which day of the week was January 24th, that year? [ ]  
(A) Sunday      (B) Wednesday      (C) Saturday      (D) Thursday
7. A line in the xy-plane passes through the origin and has a slope of  $1/4$ . Which of the following points lies on the line? [ ]  
(A) (0, 4)      (B) (1, 4)      (C) (4, 4)      (D) (8, 2)
8. A food shop sells salads for Rs.55 each and drinks for Rs.30 each. The food shop's revenue from selling a total of 209 - salads and drinks in one day was Rs.8370. How many drinks were sold that day? [ ]  
(A) 125      (B) 84      (C) 93      (D) 77
9. Which of the following numbers is NOT a solution of the inequality  $3x - 5 \geq 4x - 3$ ? [ ]  
(A) -5      (B) -3      (C) -2      (D) -1
10. Given that X and Y are positive integers. and  $X - Y$  is an even number. which of the following statements is necessarily true [ ]  
(A) Either  $X - Y$  or  $X + Y$  is divisible by 4      (B)  $X^2 - Y^2$  is divisible by 6  
(C)  $X + Y$  is divisible by 2      (D)  $X^2 - Y^2$  is divisible by 8



11. Find the sum of all 4 digit numbers formed using the digits 0,1,2 and 3, with no digit being repeated in any four digit number: [ ]  
(A) 32768 (B) 38664 (C) 65536 (D) 39996

**Directions for Questions 12 and 13:** [ ]

For an Office conference, the employees, Three men (Ram, Rajiv and Sam) and three women (Sita, Aruna and Reena) are spending a few days at a hotel. They are to stay in a row of nine rooms, each one living in his or her own room. There are no others staying in the same row of rooms.

- i. Aruna, Ram and Sam do not want to stay in any room, which is at the end of the row.  
ii. Sita and Aruna are unwilling to stay besides any occupied room..  
iii. Reena is next to Rajiv and Sam.  
iv. Between Aruna and Sam's room there is just one vacant house.  
v. None of the girls occupy adjacent rooms.  
vi. The room occupied by Ram is next to an end room.
12. How many of them occupy a room next to a vacant room? [ ]  
(A) 2 (B) 3 (C) 4 (D) 5

13. Which among these statement(s) are true ? [ ]  
I. Aruna is between Sita and Sam.  
II. At the most four persons can have occupied rooms on either side of them.  
III. Ram stays besides Rajiv.  
(A) I and II only (B) I and III only (C) II and III only (D) I, II and III

14. Find the word closest in meaning to the underlined word: [ ]  
Flowers have conspicuous petals so that they can attract birds for pollination.  
(A) Prominent (B) Beautiful (C) Colourful (D) Scented

15. Fill in the blanks: [ ]  
I live \_\_\_\_\_ an apartment building and my apartment is \_\_\_\_\_ the fifth floor.  
(A) at, in (B) in, in (C) on, in (D) in, on

16. Find the word, which is not a synonym of the word "baffled": [ ]  
(A) puzzled (B) perplexed (C) bewildered (D) relieved

17. The difficulty further embarrassed the harassed government. [ ]  
In this sentence, one or both of underlined words may have been misspelt. Find the correct set:  
(A) harassed, embarrassed (B) harassed, embarrassed  
(C) harassed, embarrassed (D) harassed, embarrassed

18. Find the order of these words, with respect to an activity : [ ]  
 I-used, II-planned, III-constructed , IV-designed  
 (A) I,II,IV,III (B) IV,II,III,I (C) II,IV,III,I (D) IV,II,III,I
19. In a Gym class, the mean age of all the males is 19 years, and the mean age of all females is 15 years. Which of the following must be true about the mean age  $m$  of the combined group of males and females? [ ]  
 (A)  $m > 17$  (B)  $m < 17$  (C)  $m = 17$  (D)  $15 < m < 19$
20. 33. In the given series, the next two numbers are: [ ]  
 0, 1, 1, 2, 3, 5, 8, \_\_, \_\_  
 (A) 12,17 (B) 13,19 (C) 13,21 (D) 11,15
21. In a college 120 new students are required to opt for Maths or Biology or both. How many students opt for Maths but not Biology? [ ]  
 Statement I: 50 students take both Maths and Biology.  
 Statement II: The number of students who opt for Maths but not Biology is the same as the number of students who opt for Biology but not Maths.  
 (A) 1 (B) 2 (C) 3 (D) 4
22. The half life of a radioactive substance is 4 months then the time spent in decaying  $\frac{3}{4}$ th of the substance would be: [ ]  
 (A) 6 months (B) 8 months (C) 3 months (D) 12 months
23. Pointing to a photograph. Balaram said, "He is the son of the only daughter of the father of my brother."  
 Balaram is a \_\_\_\_\_ of the man in the photograph? [ ]  
 (A) Nephew (B) Maternal Uncle (C) Brother (D) Father
24. Find the correct Conclusion(s): [ ]  
 Statements: Some rats are cats. Some cats are dogs. No dog is cow.  
 Conclusions:  
 I. No cow is cat.  
 II. No dog is rat.  
 III. Some cats are rats.  
 (A) I only (B) I and II only (C) III only (D) None
25. If you are using MS Word, "Ctrl + right arrow" is used to move the cursor to: [ ]  
 (A) To one word right (B) To the end of the line  
 (C) To the end of the document (D) One paragraph down
26. Identify a light sensitive device that converts drawing, printed text or other images to digital form: [ ]  
 (A) Plotter (B) Scanner (C) OMR (D) Key Board



27. If  $1234_{(x)} = 466_{(10)}$ , then what is the value of  $x$  [ ]  
 (A) 5 (B) 6 (C) 7 (D) 8
28. The book "My experiments with truth" is written by [ ]  
 (A) Leo Tolstoy (B) M.K. Gandhi (C) Abraham Lincoln (D) Swami Vivekananda
29. In the year 1910 the capital of British Indian Empire was: [ ]  
 (A) Delhi (B) Calcutta (Kolkata) (C) Bombay (Mumbai) (D) Shimla
30. Who discovered the Heliocentric theory, that Earth and planets revolve around Sun [ ]  
 (A) Aristotle (B) Ptolemy (C) Eratosthenes (D) Copernicus
31. Who is the chairperson of the Indian Parliament, Lok Sabha [ ]  
 (A) Prime minister (B) President (C) Vice president (D) Speaker
32. Which organ of the body produces the fluid known as bile? [ ]  
 (A) Gall bladder (B) Liver (C) Spleen (D) Pancreas
33. Four times Ramani's age three years hence (later) less thrice her age three years ago is twice her present age. How old will she be one year from now? [ ]  
 (A) 21 (B) 22 (C) 23 (D) 18
34. In a three digit number, the middle digit is the sum of its neighbors. The number is always a multiple of: [ ]  
 (A) 3 (B) 7 (C) 11 (D) 2
35. In the first term a student has an average of 80% opting for 3 courses. He opts for 5 courses in the next term. What average should he get in this term to achieve a combined average of 85%,? [ ]  
 (A) 85% (B) 87% (C) 88% (D) 90%
36. An engineer claims he can finish work in 3 days with present count of machines. If he had 3 more machines, he could finish the work in 2 days. Assuming all machine work at same rate, find how many machines he has now: [ ]  
 (A) 9 (B) 6 (C) 12 (D) 5
37. Raja goes to a fair and pays entry fees of Re.1 and with the remaining money he has, he can now go for 7 rides and buy 7 eatables. If he says Rs.14 for the bus ticket, he can have 7 rides and 5 eatables. His original fund would be: [ ]  
 (A) Rs.60 (B) Rs.100 (C) Rs.110 (D) Rs.120
38. A person walks from Home and travels South 12 km. Then he turns East and travels 4 km. Then he turns North and travels 9 km and from that point reaches Home by shortest path. If he was walking at 6 km/hour how long will his total trip in minutes? [ ]  
 (A) 300 (B) 205 (C) 320 (D) 240

39. Ranga invests Two lakhs of rupees in Gold and 3 lakhs in Silver. By the time he sold , [ ]  
Gold appreciated by 5% and Silver depreciated causing a total loss of 2.5% on his  
investment. Find the percentage depreciation of Silver?  
(A) 5 (B) 6 (C) 7.5 (D) 7
40. There are two buses: one takes 2hrs and the other takes 1hr 45 min for a circular trip. If [ ]  
they start together at 6.30 am on a certain day, when will they start together again?  
(A) 6.30 pm (B) 8.30 pm (C) 10.30 pm (D) 12.30 am, next day
41. A six faced die is a biased one. It is thrice more likely to show an odd number than to [ ]  
show an even number. It is thrown thrice. The probability that the sum of the numbers in  
the two throws is even is  
(A)  $\frac{4}{8}$  (B)  $\frac{5}{8}$  (C)  $\frac{6}{8}$  (D)  $\frac{7}{8}$
42. In a row of children facing North, Shamika is third to the right of Nikhil, who is 17<sup>th</sup> from [ ]  
the right end of the row. Ravi is 5<sup>th</sup> to the left of Shamika and is 20<sup>th</sup> from the left end.  
Totally how many children are there in the row?  
(A) 37 (B) 38 (C) 39 (D) None of these
43. A blacksmith has five iron articles A, B, C, D and E , each having a different weight. [ ]  
  - A weighs twice as much as B
  - B weighs four and half times as much as C
  - C weighs half as much as D
  - D weighs half as much as E
  - E weighs less than A but more than C
Which of the following article is heaviest in weight?  
(A) A (B) B (C) C (D) D
44. Karan and Arjun run a 100 meters race, where Karan beats Arjun by 10 meters. To do a [ ]  
favor to Arjun, Karan starts 10 meters behind the starting line in a second 100 meter race.  
They both run at their earlier speeds. Which of the following is true in connection with the  
second race?  
(A) Karan and Arjun reach the finishing line simultaneously  
(B) Arjun beats Karan by 1 metre  
(C) Arjun beats Karan by 11 metres  
(D) Karan beats Arjun by 1 metre
45. In a cricket season, India defeated Australia twice. West Indies defeated India twice. India [ ]  
defeated New Zealand twice and West Indies defeated New Zealand twice. Which country  
has lost most number of times?  
(A) India (B) Australia (C) New Zealand (D) West Indies
- Questions 46 and 47 are based on the following: [ ]  
There are Five persons A, B, C, D and E standing on six steps numbered 1, 2, 3, 4, 5, 6  
from the bottom. At most one person is standing on each step. The step number on which  
A is standing, is two less than that of C. Step number on which B is standing is one more  
than that of D.



46. If A is standing on step 1, which of the following is true? [ ]  
 (A) B is standing on step 2 (B) C is standing on step 4  
 (C) E is standing on step 3 (D) D is standing one step higher than C
47. If D is standing on step 1, on which step A could be standing? [ ]  
 (A) 2 or 4 only (B) 3 or 5 only (C) 3 or 4 only (D) 4 or 5 only
48. Out of the given alternatives, choose the word that best expresses the meaning of the word ABRIDGE. [ ]  
 (A) Judge (B) Release (C) Shorten (D) Dissolve
49. Arrange the following to form a correct sentence [ ]  
 P: will normally be granted  
 Q: candidates should note  
 R: that no request for  
 S: change of centre  
 (A) SRQP (B) PRQS (C) QSPR (D) QRSP
50. The answer of the operation  $(10111)_2 \times (1110)_2$  in hexa equivalent is [ ]  
 (A) 150 (B) 14C (C) 142 (D) 13E
51. The number of ways in which 5 boys and 5 girls sit alternatively in a row is [ ]  
 (A)  $(5!)^2$  (B)  $2(5!)^2$  (C)  $2(5!)$  (D)  $5!$
52. The number of even numbers that can be formed by using all the digits 2, 3, 4, 5, 6 is [ ]  
 (A) 25 (B) 72 (C) 120 (D) 1875
53. If R is son of A, A and S are sisters, D is the mother of S, J is son of D. Which of the following statement is true? [ ]  
 (A) S and J are sisters (B) R and J are cousins (C) R is the nephew of J (D) None
54. If second Saturday and all Sundays were the only holidays in February 2012, how many working days were there in the month if New Year was on Sunday in 2012? [ ]  
 (A) 4 (B) 5 (C) 24 (D) 23
55. The son of a professor's father is talking to the father of the professor's son and the professor does not take part in the conversation. Which of the following is true? [ ]  
 (A) This is impossible  
 (B) This is possible only if professor has twin sons  
 (C) This is possible only if the professor has three sons  
 (D) This is possible if the professor is a woman
56. In a certain language, each digit represents one word in English [ ]  
 '742' means 'mangoes are good'  
 '657' means 'eat good food' and  
 '934' means 'mangoes are ripe'  
 Which digit means 'ripe' in that language?  
 (A) 5 (B) 4 (C) 7 (D) 9



57. Which of the following is the closest meaning for the phrase “cold fish”? [ ]  
 (A) Food that is not refreshing (B) Fish, that is really cold  
 (C) A person who looks like a fish (D) A person who is not very friendly
58. How many bytes are there in a nibble? [ ]  
 (A) one eighth (B) 8 (C) half (D) 2
59. A temporary storage area, attached to the CPU, for I/O operation is a [ ]  
 (A) buffer (B) channel (C) register (D) flip-flop
60. The number of bit strings of length 8, that start with a ‘0’ bit or end with bits 11 is [ ]  
 (A) 132 (B) 180 (C) 256 (D) 160
61. The profit made in selling 12 meters of cloth is equal to the selling price of 4.8 meters of it. Find the profit percentage? [ ]  
 (A)  $66\frac{2}{7}$  (B)  $66\frac{2}{3}$  (C)  $66\frac{1}{3}$  (D)  $66\frac{6}{7}$
62. In a hostel, there are 120 students and food stock is for 45 days. If 30 new students join the hostel, in how many days will the stock be exhausted? [ ]  
 (A) 38 (B) 40 (C) 36 (D) 32
63. An equilateral triangle and a semi circle are drawn on both sides of a square having its side as 4 centi meters as shown in the following diagram. What is the total area of the diagram? [ ]
- 
- (A)  $2[\pi + 8 + 2\sqrt{3}]$  cm  
 (B)  $2[\pi + 2 + 8\sqrt{3}]$  cm  
 (C)  $2[\pi + 8 + \sqrt{3}]$  cm  
 (D)  $2[\pi + 8 + 6\sqrt{3}]$  cm
64. x, y, z are three numbers such that  $xy = 72$ ,  $yz = 144$  and  $zx = 128$ , then  $xyz =$  \_\_\_\_ [ ]  
 A) 1152 (B) 1052 (C) 1256 (D) 1236
65. The remainder when  $1! + 2! + 3! + \dots + 100!$  when divided by 12 is [ ]  
 (A) 8 (B) 10 (C) 11 (D) 9
66. If 12 people are chosen at random then what is the probability that their birthdays fall in different calendar months? [ ]  
 (A)  $1/12!$  (B)  $11/12^{11}$  (C)  $11! / 12^{11}$  (D)  ${}^{12}C_2 / {}^{12}C_{12}$

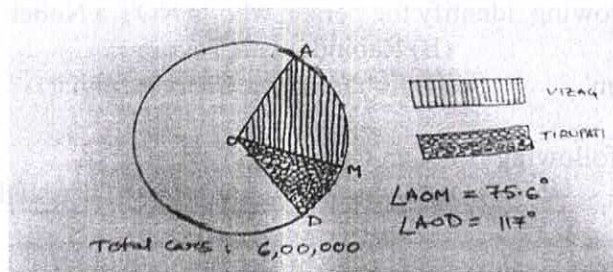
67. What is the probability that, a leap year selected at random will have 53 Mondays? [ ]  
 (A)  $1/7$  (B)  $2/7$  (C)  $3/7$  (D)  $4/7$
68. In a certain time, using simple interest, a sum becomes 4 times of it, at the rate of 5% per annum. At what rate of simple interest, the same sum becomes 8 times in the same duration? [ ]  
 (A)  $12\frac{2}{3}\%$  (B)  $11\frac{3}{5}\%$  (C)  $11\frac{2}{3}\%$  (D)  $12\frac{3}{5}\%$
69. Two taps can fill a tank in 12 and 18 minutes each, separately. Both are kept open for 2 minutes and then the first tap is closed. In how many more minutes will the tank be filled? [ ]  
 (A) 15 (B) 13 (C) 18 (D) 16
70. The average attendance of a class for the first 4 days is 32 and for the first 5 days is 33. How many students are present on the 5<sup>th</sup> day? [ ]  
 (A) 37 (B) 40 (C) 33 (D) 32
71. If the LCM of two numbers is 120 and their GCD (or HCF) is 8, then the product of the two numbers is \_\_\_\_\_ [ ]  
 (A) 480 (B) 960 (C) 360 (D) 150
72. If  $a^2 + 4b^2 = 4ab$ , then a:b = [ ]  
 (A) 1:2 (B) 2:1 (C) 3:1 (D) 1:3
73. One of the following is odd in certain way from the others. Find that one? [ ]  
 (A) March (B) July (C) August (D) November
74. Identify the correct sentence [ ]  
 (A) One my friends has gone to Hyderabad  
 (B) One of my friend has gone to Hyderabad  
 (C) One of my friend have gone to Hyderabad  
 (D) One of my friends have gone to Hyderabad
75. Fill in the blank with the correct tense of the verb: [ ]  
 Anyone who \_\_\_\_\_ late will not be admitted  
 (A) came (B) comes (C) shall come (D) has come
76. Governor of RBI is appointed by [ ]  
 (A) President of India (B) Chief Justice of India  
 (C) Finance minister of India (D) Prime Minister of India
77. Which of the following is a source of Vitamin B<sub>12</sub>? [ ]  
 (A) Lemon (B) Green Chilli (C) Milk (D) Amla (Goose berry)
78. In which country the first Asian games were held? [ ]  
 (A) Pakistan (B) China (C) South Korea (D) India

79. Out of the following, identify the person who is NOT a Nobel Prize Winner? [ ]  
 (A) J C Bose (B) Rabindranath Tagore  
 (C) C V Raman (D) Subamnyan Chandrasekhar
80. Which of the following is not an Operating System? [ ]  
 (A) Linux (B) OS/2 (C) DB2 (D) ANDROID
81. What is the decimal equivalent of the binary number 111101? [ ]  
 (A) 63 (B) 61 (C) 64 (D) 59
82. How many cubes of size 3cm can be inserted into a box with length 15cm, breadth 12 cm and height 6cm? [ ]  
 (A) 48 (B) 40 (C) 45 (D) 42
83. If  $0 < x < 1$ , then which of the following is the greatest? [ ]  
 (A)  $x$  (B)  $x^2$  (C)  $-x$  (D)  $1/x$
84. Five boys participated in a competition. [ ]  
 Anand was ranked lower than Gautam.  
 Hari was ranked higher than Manish but lower than Gautam.  
 Sarma was ranked between Anand and Hari. Who was ranked highest?  
 (A) Hari (B) Anand (C) Guatam (D) Manish
85. Which of the following numbers  $n$ ,  $n^2 + n + 41$  is not a prime number? [ ]  
 (A) 5 (B) 10 (C) 40 (D) 24
86. Which of the following number is not divisible by 99? [ ]  
 (A) 123453 (B) 357192 (C) 264132 (D) 437526
87. If 10% of  $x$  is equal to 30% of  $y$  then  $x:y =$  [ ]  
 (A) 1:2 (B) 2:1 (C) 3:1 (D) 1:3
88. Out of 75,000 students, 75% of the students study Physics and 45% study Mathematics. [ ]  
 How many of them study both?  
 (A) 2500 (B) 3500 (C) 1000 (D) 1500

Questions 89 to 93 are based on the Pie chart given Figure 1.

The total number of cars in Andhra Pradesh is given as Pie chart, in which the cars in Vizag and Tirupati are shown. Based on the chart given in Figure 1 , answer the following questions:





89. How many cars are there in Tirupati? [ ]  
 (A) 60,000 (B) 63,000 (C) 69,000 (D) 66,000
90. How many more cars are there in Vizag than in Tirupati? [ ]  
 (A) 57000 (B) 60000 (C) 63000 (D) 67000
91. What percentage of the total number of cars of Andhra Pradesh are in Vizag? [ ]  
 (A) 15 (B) 18 (C) 21 (D) 25
92. How many cars in Andhra Pradesh are from outside of both Vizag and Tirupati? [ ]  
 (A) 400000 (B) 405000 (C) 410000 (D) 415000
93. What percentage of the total number of cars are there in Tirupati? [ ]  
 (A) 12.5 (B) 10.5 (C) 10.7 (D) 11.5

Questions 94 to 99 are based on the following:

Five literary experts A, B, C, D, and E from different states have attended a Conference in Delhi.

- A can speak in Hindi and Telugu languages only
- B can speak in Hindi and English languages only
- C can speak in English and Telugu languages only
- D can speak in Tamil and Hindi languages only
- E can speak in Telugu and Tamil languages only

94. Which of the following experts cannot converse between them without the help of an interpreter? [ ]  
 (A) A and E (B) B and D (C) A and B (D) B and E
95. Besides E, which of the following can converse with D without an interpreter? [ ]  
 (A) Only A (B) A and B (C) Only B (D) Only C
96. If an interpreter has to be arranged for all the five of them, then he should speak [ ]  
 (A) English and Tamil (B) Telugu and Tamil  
 (C) Telugu and Hindi (D) Hindi and Tamil
97. Who of the following can act as an interpreter when C and D wish to talk to each other? [ ]  
 (A) A only (B) A or B only (C) E only (D) A or B or E

98. Among the following, who can converse with all others without the help of an interpreter? [ ]  
(A) A (B) B (C) C (D) D
99. If  $a^{\log_5 b} = 20$ , then  $b^{\log_5 a} =$  [ ]  
(A) 5 (B) 20 (C) 4 (D)  $\log_5 20$
100. How many times do the two hands of a clock coincide in 24 hours? [ ]  
(A) 24 (B) 23 (C) 22 (D) 25

**SPACE FOR ROUGH WORK**