APPENDIX - IV

PROBLEM SOLVING ABILITY TEST

1. In the following figure, write the number from 1 to 9 so that the sum of every line is equal to 15. Do not repeat the number.

2. In the following figure, write any number in the circle so that the sum of every line is equal to 26. Do not repeat the number.

3. Can you make two squares and four right angle triangles from only 8 straight lines?

4. How many squares are there in this figure?

5. How many triangles (of any size) are there in the given figure?

6. Find out the maximum number of rectangles in the following figure?
SECTION - II

7. If five spiders can catch five flies in five minutes. How many spiders are required to catch 100 flies in 100 minutes?

8. Place three sixes together to make seven.

9. How can you take one from nineteen and leaving 20 behind?

10. Arrange the number 8 , eight times in such a way as to add up to 1000?

11. What is the largest number which can be written with three 2's ? Select the appropriate answer out of the following:
   a) 222  b) 22  c) 22  d) 2

12. It is a small town railway station and there are 25 stations on that line. At each of the 25 stations, the passengers can get tickets for any of other 24 stations. How many different kinds of tickets do you think, the booking clerk has to keep?

SECTION -III

13. Little 'Raja' was playing with his friend 'Naval' I heard her say to him,” If you give me one of your marbles, I will have as many as you”. Naval replied,” If you give me one of your marbles then , I will have twice as many as you", How many marbles each had?

14. A heavy tree trunk can be sawed into a twelve feet long Piece in one minute. How long will it take to saw it into twelve equal pieces?

15. While driving through the countryside, one day I saw a farmer tending his pigs and ducks in his yard. I was curious to know how many of each he had ? He replied," I have altogether 60 eyes and 86 feet between them. I stpped the car and unquired. I drove off trying to calculate in my mind ; the exact number of ducks and pigs he had?

16. One day, 'Ram' went to purchase a toffee. The shopkeeper asked for ‘10’ paise from him ‘Ram gave ’50’ paise coin. But the shopkeeper did not have the change of 40 paise. He asked for one rupee coin and returned 90 paise to Ram. How it was possible ?

17. One morning, I was on my way to the market and met a man who had 4 wives. Each of the wives had 4 bags containing 3 dogs and each dog had 4 pappies. Taking all things into consideration , how many were going to the market?

18. Swimming under a bridge, there are two ducks in front of two ducks and two ducks behind two ducks and two ducks in the middle. How many there were in all?

19. (a) write any number of 3 digits.
   (b) Now write the number obtained by reversing the order of the digits.
   (c) Now subtract the smaller number from the larger number.
   (d) Now write the number formed by reversing the order of digits obtained in the operation no. (c)
(e) Lastly add the results of (c) and (d) what is the number?

SECTION - IV

20. Which would you say is heavier, a pound of cotton or a pound of gold?
21. How will you make iron float on water?
22. An electric engine was going from South to North write the direction of its smoke.
23. Bacteria is known to multiply rapidly. A certain container contains just one bacteria on the first day and there are twice as many on the next day. In this manner the no. of bacteria in the container doubles itself everyday. Assuming that the container would be full of bacteria on 10th day. On which day would the container be half full?
24. A father is 4 times his son’s age. In 30 years, son’s age will be half of his father’s age. How old are the father & the son now?
APPENDIX – IV

ANSWER SHEET OF PROBLEM SOLVING ABILITY TEST

Name……………………..Class……………………..Roll No……
School ……………………..Date……………………………

Q. No. | ANSWER
--- | ---
7 | 
8 | 
9 | 
10 | 
11 | 
12 | 
13 | 
14 | 
15 | 
16 | 
17 | 
18 | 
19 | 
20 | 
21 | 
22 | 
23 | 
24 | 

Q. 1

Q. 2

Q. 3

Q. 4

Q. 5

Q. 6