

APTITUDE QUIZ

1. In a class, there are 15 boys and 10 girls. Three students are selected at random. The probability that 1 girl and 2 boys are selected, is:

- A. $21/46$
- B. $25/117$
- C. $1/50$
- D. $25/117$
- E. None of these

2. A bag contains 2 red, 3 green and 2 blue balls. Two balls are drawn at random. What is the probability that none of the balls drawn is blue?

- A. $10/21$
- B. $11/21$
- C. $2/7$
- D. $5/7$

3. 10 men and 10 women are there, they dance with each other, is there possibility that 2 men are dancing with same women and vice versa.

- A. 1
- B. $1/2$
- C. $2/3$

- D. Never
- E. None of these

4. There is a toy train that can make 10 musical sounds. It makes 2 musical sounds after being defective. What is the probability that same musical sound would be produced 5 times consecutively?

- A. $1/32$
- B. $11/32$
- C. $1/16$
- D. $11/16$

5. There are 11 boys in a family. Youngest child is a boy. Probability is 1 that of all are boys out of?

- A. 2
- B. $2!$
- C. 2048
- D. 1024

6. For the FIFA world cup, Paul the octopus has been predicting the winner of each match with amazing success. It is rumored that in a match between 2 teams A and B, Paul picks A with the same probability as A's chances of winning. Let's assume such rumors to be true and that in a match between Ghana and Bolivia, Ghana the stronger team has a probability of $2/3$ of winning the game. What is the probability that Paul will correctly pick the winner of the Ghana-Bolivia game?

- A. $1/9$
- B. $4/9$
- C. $5/9$
- D. $2/3$

7. After the typist writes 12 letters and addresses 12 envelopes, she inserts the letters randomly into the envelopes (1 letter per envelope). What is the probability that exactly 1 letter is inserted in an improper envelope?

- A. $1/12$
- B. 0
- C. $12/212$
- D. $11/12$

8. In a lottery, there are 10 prizes and 25 blanks. A lottery is drawn at random. What is the probability of getting a prize?

- A. $1/10$
- B. $2/5$
- C. $2/7$
- D. $5/7$

9. A 5-digit number is formed by the digits 2,4,5,6,8 (each digit used exactly once) . What is the probability that the number formed is divisible by 4 ?

- A. $1/5$

- B. 2
- C. 3
- D. 2/5

10. A group consists of equal number of men and women. Of them 10% of men and 45% of women are unemployed. If a person is randomly selected from the group. Find the probability for the selected person to be an employee.

- A. 15/40
- B. 30/40
- C. 29/40
- D. 19/40

11. In the reading room of a library, there are 23 reading spots. Each reading spot consists of a round table with 9 chairs placed around it. There are some readers such that in each occupied reading spot there are different numbers of readers. If in all there are 36 readers, how many reading spots do not have even a single reader?

- A. 8
- B. 15
- C. 16
- D. 17

12. The difference between two no is 9 and the product of the two is 14. What is the square of their sum?

- A. 120
- B. 130
- C. 137
- D. 145

13. How many 9 digit numbers are possible by using the digits 1,2,3,4,5 which are divisible by 4 if the repetition is allowed?

- A. 57
- B. 56
- C. 59
- D. 58

14. A sporting goods store ordered an equal number of white and yellow balls. The tennis ball company delivered 45 extra white balls, making the ratio of white balls to yellow balls $1/5 : 1/6$. How many white tennis balls did the store originally order for?

- A. 450
- B. 270
- C. 225
- D. None of these

15. There are 100 wine glass. I offered my servant to 3 paise for every broken glass to be delivered safely and forfeit 9 paise for every glass broken. At end of day he received Rs.2.40. how many glass did he break?

- A. 3
- B. 4
- C. 5
- D. 6

16. Raj writes a number. He sees that the number of two digits is 9 less than 3 times the number. If the number is increased by 45, the result is the same as the number formed by reversing the digit. Find the number.

- A. 35
- B. 27
- C. 36
- D. 49

17. In the equation $A + B + C + D + E = FG$ where FG is the two digit number whose value is $10F + G$ and letters A, B, C, D, E, F and G each represent different digits. If FG is as small as possible. What is the value of G ?

- A. 4
- B. 2
- C. 1
- D. 3

18. If all the numbers between 11 and 100 are written on a piece of paper. How many times will the number 4 be used?

- A. 20
- B. 19
- C. 9
- D. None of these

19. Three non negative numbers, X, Y and Z are such that the mean is M and the median is 5. If M is 10 more than the smallest number and 15 less than the biggest number, find the value of X+Y+Z.

- A. 15
- B. 5
- C. 20
- D. 30

20. A number is divided by 5,2 and 3 successively in order to get remainders of 0,1, and 2 respectively. What will be the remainders when the same number is divided by 2,3 and 5 respectively?

- A. 1,0,4
- B. 1,2,3
- C. 1,2,0
- D. 1,0,2

ANSWERS

1. A

2. A

3. D

4. A

5. D

6. C

7. B

8. C

9. D

10. C

11. B

12. C

13. A

14. C

15. C

16. B

17. B

18. B

19. D

20. A