Airtel Placement Paper Questions

Q1. A person buys 18 local tickets for Rs 110. Each first class ticket costs Rs 10 and each second class ticket costs Rs 3. What will another lot of 18 tickets in which the numbers of first class and second class tickets are interchanged cost?

A.112
B.118
C.121
D.124

Q2. How many differently shaped triangles exist in which no two sides are of the same length, each side is of integral unit length and the perimeter of the triangle is less than 14 units?

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

Q3. Mahesh visited his cousin Akash during the summer vacation. In the mornings, they both would go for swimming. In the evenings, they would play tennis. They would engage in at most one activity per day, i.e. either they went swimming or played tennis each day. There were days when they took rest and stayed home all day long. There were 32 mornings when they did nothing, 18 evenings when they stayed at home, and a total of 28 days when they swam or played tennis. What duration of the summer vacation did Mahesh stay with Akash?

A.46 days
B.36 days
C.39 days
D.58 days

Q4. Abhishek had a certain number of Re1 coins, Rs 2 coins and Rs 10 coins. If the number of Re 1 coins he had is six times the number of Rs 2 coins Abhishek had, and the total worth of his coins is Rs 160, find the maximum number of Rs 10 coins Abhishek could have had.

A.12
B.10
C.8
D.6

Q5. There are 2 mean, 3 women and 1 child in PradeepÂ's family and 1 man, 1 woman and 2 children in PrabhatÂ's family. The recommended calorie requirement is- Men: 240, Women: 1990, Children: 1800 and for proteins is: Men: 55 gm, Woman: 45 gm, children: 33 gm. Calculate the total requirement of calories and proteins for each of the two families.

A.A: 12300, 278; B: 7900 ,166
B.A: 12400, 300; B: 8000, 167
C.A: 12300, 278; B: 6600, 200
D.A: 8000, 278; B: 7900, 166

Q6. A group of 630 children is arranged in rows for a group photograph session. Each row contains three fewer children than the row in front of it. What number of rows is not possible?

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

Q7. A number of three digits in base 7, when expressed in base 9, has its digits reversed in the order. What is the sum of the digits of the number?

A.5
B.6
C.7
D.8

Q8. Three persons Suresh, Devesh and Prashant were born on different days in the same year. If the date and month of birth of Suresh, Devesh and Prashant are numerically equal, then what could be the minimum difference in the ages of youngest and oldest in days?

A.56
B.60
C.61
D.62

Q9. A man buys Bank's cash certificates every year for a value exceeding the last year's purchase by Rs 400. After 24 years, he finds that the total value of the certificate purchased by him is Rs 144,000. What is the value of the certificates purchased by him in the 13th year?

A.Rs 3820
B.Rs 5400
C.Rs 6200
D.Rs 4530

Q10. The sum of the reciprocals of the ages of two colleagues is five times the difference of the reciprocals of their ages. If the ratio of the products of their ages to the sum of their ages is 14.4 : 1, the age (in years) of one of the colleagues must be between (both inclusive).

A.20 and 23
B.23 and 26
C.26 and 30
D.30 and 35

Q11. When the index of an exponential expression with a positive base is doubled, then the expression increases by 700%. If one of the values that the base cannot have is X which of the following is not a possible value of P?

A.4
B.8
C.5
D.1

Q12. The currencies in countries X and Y are denoted by Xs. and Ys. respectively. The exchange rate in 1990 was 1 Xs. = 0.6 Ys. The price level in 2006 in X and Y are 150 and 400 respectively with 1990 as a base of 100. The exchange rate in 2006, based solely on this purchasing power parity consideration, is 1 Xs.=

A.0.225 Ys.
B.0.625 Ys.
C.1.6 Ys.
D.3.6 Ys.

Q13. In a family of husband, wife and a daughter, the sum of the husbandÂ's age, twice the wifeÂ's age, and thrice the daughterÂ's age is 85; while the sum of twice the husbandÂ's age, four times the wifeÂ's age, and six times the daughterÂ's age is 170. It is also given that the sum of five times the husbandÂ's age, ten times the wifeÂ's age and fifteen times the daughterÂ's age equals 450. The number of possible solutions, in terms of the ages of the husband, wife and the daughter, to this problem is:

A.0
B.1
C.2
D.Infinitely many

Q14. A farmer has decided to build a wire fence along one straight side of his property. For this, he planned to place several fence posts at 6m intervals, with posts fixed at both ends of the side. After he bought the posts and wire, he found that the number of posts he had bought was 5 less than required. However, he discovered that the number of posts he had bought would be just sufficient if he spaced them 8m apart. What is the length of the side of his property and how many posts did he buy?

A.100m, 15
B.100m, 16
C.120m, 15
D.120m, 16

Q15. If Dennis is 1/3 rd the age of his father Keith now, and was 1/4 th the age of his father 5 year ago, then how old will his father Keith be 5 year from now?

A.45 year

B.40 year
C.55 year
D.50 year

Q16. Students of a class are made to stand in rows. If 4 students are extra in each row, there would be 2 rows less. If 4 students are less in each row, there would be 4 more rows. The number of students in the class is:

A.90
B.94
C.92
D.96

Q17. A club consists of members whose ages are in A.P. The common difference being 3 months. If the youngest member of the club is just 7 years old and the sum of the ages of all the members is 250, then number of members in the club are:

A.18
B.20
C.25
D.24

Q18. Large, medium and small ships are used to bring water. 4 large ships carry as much water as 7 small ships. 3 medium ships carry the same amount of water as large ship and 1 small ship, 15 large, 7 medium and 14 small ships, each made 36 journey and brought a certain quantity of water. In how many journeys would 12 large, 14 medium and 21 small ships bring the same quantity?

A.32

B.29
C.49
D.25

Q19. 21 pencils and 29 pens cost Rs 79. But if the number of pencils and pens were interchanged, the cost would have reduced by Rs 8. Find the cost of each pen.

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

Q20. In a factory, each day the expected number of accidents is related to the number of overtime hour by linear equation. Suppose that on one day there were 1000 overtime hours logged and 8 accidents reported and on another day there were 400 overtime hours logged and 5 accidents. What is the expected number of accidents when no overtime hours are logged?

A.2
B.3
C.4
D.5

Q21. A transport agency has 5 carriers, each of capacity 15 tonnes. The carriers are scheduled such that the first carrier makes a trip every day, the second carrier makes a trip every second. The third makes a trip every third day and so on. Find the maximum number of times in a year that it is possible to dispatch a total shipment of 75 tonnes in a single day. The operation starts on the 7th January 2010 and continue till the end of the year (31st December 2010) without any holiday.

A.7
B.6
C.5
D.821

Q22. N persons stand on the circumference of a circle at distinct points. Each possible pair of persons, not standing next to each other, sings a two-minute song one pair after the other. If the total time taken for singing is 28 minutes, what is N?

A.5
B.7
C.9
D.4