Placement Papers: Infosys Paper 264

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1. Albert and Fernandes have two leg swimming race. Both start from opposite ends of the pool. On the first leg, the boys pass each other at 18 m from the deep end of the pool. During the second leg they pass at 10 m from the shallow end of the pool. Both go at constant speed but one of them is faster. Each boy rests for 4 seconds at the end of the first leg. What is the length of the pool?

2. Each alphabet stands for one digit in the following multiplication. T H I S x I S X F X X X X U X X X N X X What is the maximum value T can take?

3. If $\frac{1}{4}$ of the time from midnight plus $\frac{1}{2}$ of the time from now to midnight is the present time, then What is the present time? 2. In a 10 digit number, if the 1st digit number is the number of ones, 2nd digit number is the number of twos, and … So on. 10th digit is the number of zeroes, then find the number.

4. A train blows a siren one hour after starting from the station. After that it travels at $\frac{3}{5}$ th of its speed it reaches the next station 2 hours behind schedule. If it had a problem 50 miles farther from the previous case, it would have reached 40 minutes sooner. Find the distance between the two stations.

5. An army 50 miles long marches at a constant rate. A courier standing at the rear moves forward and delivers the message to the first person and then turns back and reaches the rear of the army as the army completes 50 miles. Find the distance travelled by the courier.

6. Olympic race: 4 contestants: Alan, charlie, Darren, Brain. There are two races and average is taken to decide the winner. One person comes at the same position in both the race. Charlie always come before Darren. Brian comes first once. Alan comes third atleast once. Find the positions. Alan never comes last. Charlie & Darren comes 2nd atleast once.

7. There are 6561 number of balls in a bag. Out of which one is heavy ball. In how many minimum number of weighing you can find the heavy ball. Ans: 8.

8. The profit made by a company in one year is enough to give 6% return on all shares. But as the preffered shares get on return of 7.5% , so the ordinary shares got on return of 5% . If the value of preferd shares is ₹ 4,000000, then what is the value of ordinary shares? Ans: ₹ 6,000000.

9. There were 50 players playing a game among themselves. Each player is out of the game when lose 3 matches. What is the number of matches should be played in order to get the winner.

10. A & B two places. C & D are two people. C started from A and D started from B. When they meet each other in the way C traveled 18 m more than D. Then C takes 13 and half a minute and D takes 24 minutes to reach the other end. What was the distance between A & B. Ans: 126.

11. I have been hearing a girl singing a song for last two score. Song: If seven times five and three times seven is added to my age it would be as far above six nines and four as the difference

between twice of my age and a score. Given-A score is 20 yrs.

12. A tourist wants to go from A to B. There are four ways to do this:

    a. To take a wagon. The wagon stops for half an hour at a station in between a & b and then goes to b

    b. To walk to B. If he leavs A at the same time the wagon leaves, he will be between by the wagon by 1 mile to reach B

    c. To walk from A at the same time the wagon leaves from A, He will arrive at the mid station at the time when the wagon is prepared to leave. He can take the wagon from there. This will take shortest time.

    d. To go on upto the mid station & to walk from there. He will reach at B 15 minutes before the wagon.

    e. What is the distance between A & B?

13. In a train there is one brakeman, conductor, engineer & fireman. Their names are Art, John, Tom & Pete given in this order or in reverse order. You have to tell the occupation of the four, wrt these conditions:

    a. Brakeman has no relatives.

    b. John is older than art.

    c. Engineer & fireman are brothers.

    d. John is pete's nephew.

    e. Fireman is not conductor's uncle.

    f. Conductor is not engineer's uncle.

14. Ans: Pete & Tom are brothers. Tom--Father and John is his son.

15. Art--Brakeman.

16. John--Conductor.

17. Tom--Engineer.

18. Pete--Fireman.

19. There is a 18 strong building and 4 people live in it. They are dentist, lawyer, accountant, architect. Dentist floor is 5 times the lawyer's floor. Account is below dentist. If archetect moves two floors up he will be midway between dentist and account. If architect moves to midway of the building (9th floor) then he will be middle of dentist & lawyer. Ground floor can be ignored i.e.. . , floor 0. Ans: Dentist 15 Accountant 13 Archetect 12 Lawyer 3

20. 4 ladies, Mrs Margarat, Mrs Price, Mrs Winter & Mrs Ellen went for marketing. Each went for 2 shops only. Their surnames are lorret, torrey, doris and marshall. One went to a hardwares shop. Two went to bank. Two went to buchers. All but dorris went to grocery etc. Who went where?

21. A software engineer starts from home at 3 pm for evening walk. He walks at a speed of 4 kmph on level ground and then at a speed of 3 kmph on the uphill and then down the hill at a speed of 6

kmph to the level ground and then at a speed of 4 kmph to the home at 9 pm. What is the distance on one way?

22. A bag contains certain number of files. Each file is numbered with one digit of 0 to 9. Suppose the person want to get the number between 1 to 2000 (or 7000 check) . How many minimum number of files should be present in the bag.

23. a + b + c + d = d + e + f + g = g + h + i = 17 If a = 4, what are the values of d and g. Each letter taken only one of the digit from 1 to 9 Ans: a = 4, b = 2, c = 6, d = 5, e = 3, f = 8, g = 1, h = 7, i = 9

24. A frog jumps 3 ft comes back 2ft in a day. In how many day it will come out of 30ft deep well? Ans: 28 day.

25. A-B = C D/E = F G + H = I C. F = I Ans: A = 9, B = 5, C = 4, F = 2

26. When the actual time pass 1 hr, wall clock is 10 min behind it. When 1 hr is shown by wall clock, table clock shows 10 min ahead of 1 hr. When table clock shows 1 hr, the alarm clock goes 5 min behind it. When alarm clock goes 1 hr, wrist watch is 5 min ahead of it. Assuming that all clocks are correct with actual time at 12 noon, what will be time shown by wrist watch after 6 hr? Ans: 5: 47: 32.5 (n X 60) $\frac{50}{60}$ X $\frac{70}{60}$ X $\frac{55}{60}$ X $\frac{65}{60}$

27. A software engineer just returned from US, has eaten too much fat & put a lot of weight. Every sunday he starts walking 4 km/hr on level ground, then up at 3 km\hr, then back down hill at 6km\hr, then again on level ground at 4km\hr till he reaches his destination. If he returned home at 9 p. m. what distance did he covered? Ans: 24 km.

28. Answer the questions from facts: The members of certain tribe are divided into 3 casts abhor, dravid amp; magar.

  a. An abhor woman can't marry dravid man.

  b. A magar woman can't marry a dravid man.

  c. A son takes the caste of his father and a daughter takes caste of her mother.

  d. All marriages except those mentioned, are not permitted.

  e. There are no children born out of a wedlock.

29. There are 2 scales of temp A & B. It was given A varies from 14 to 133 and B varies from 36 to 87, Find the temperature, when temperature of A is equal to temp of B. Ans: 52.5.

30. Let t = mx + c, c =-70 ⇒ m = $\frac{51}{119}$ a = a. $\frac{51}{119}$ -70 ⇒ a = 52.5.

31. There are 4 married couples, out of which, 3 poeple in a group is needed. But there should not be his or her spouse in the group. How many groups are possible? Ans: 32.

32. In the 4 digits 1, 2,3, 4, how many 4 digited numbers are possible which are divisible by 4? Repeatations are allowed. Ans: 64

33. Two men are going along a track of rail in the opposite direction. One goods train crossed the first person in 20 sec. After 10 min the train crossed the other person who is comming in opposite direction in 18 sec. After the train has passed, when the two persons will meet? Ans: Approx. 72 min, check it once.

34. The no. Of children, adults. The no. Of adults the no. Of boys. The no. Of boys no. Of girls. The no. Of girls no. Of family. Conditions:

    a. No family is without a child.

    b. Every girl has at least one brother and sister.

35. Ans: c > a > b > g > f; 9 6 5 4 3.

36. There are 4 boys-Anand, Anandya, Madan and Murali with nic-names perich, zomie, drummy and madeena not in the same order. Some conditions. Ans: Anand: Perich Anandya: Drummy Madan: Zombie Murali: Madeena

37. There are 2 diamonds, 1 spade and 1 club and 1 ace and also 1 king, 1 jack and 1 ace are arranged in a straight line.

    a. The king is at third place.

    b. The left of jack is a heart and its right is king.

    c. No two red colours are in consecutive.

    d. The queens are separated by two cards.

38. Write the order of which suits (hearts, clubs) and names (jacks queens etc.) are aranged?

39. Write each statement as true or false. 8 Marks

    a. The sum of the first three statements and the second false statement gives the true statement.

    b. The no. Of true statements > No. Of false statements.

    c. The sum of second true statement and first false statement gives the first true statement.

    d. There are atmost 3 false statements.

    e. There are no two consequtive true statements.

40. There are 3 piles each contains 10,15, & 20 stones. There are A, B, C, D, F, G and H persons. One man can catch upto four stones from any pile. The last man who takes will win. If first A starts next B and so on, who will win? Ans: May be F.

41. In a certain department store the position of Buyer, Cashier, Clerk, Floorwalkar & Manager are held, though not necessarily respectively, by Evans, Ames, Conroy, Davis amp; Buyer. The cashier & the manager were roommates in college. The Buyer is bachelor, Evans & Miss Ames have only business contacts with each other. Mrs. Conroy was greatly dosappointed when her husband told her that the manager had refuged to give him a raise. Davis is going to be the best man when the clerk & the cashier are married. What position does each person held?

42. In a four team foot-ball tournament, all the teams played each Other in three rounds of matches as shown in the Table-A. Some of The results of the tournament are shown in the Table-B. Using the Clues given below, please fill in the blank columns in the result Table-B (Goals for & Goals Against?) . Note: Two points for win, one point for draw & zero points for defeat are awarded. Clues:

    a. East zone won the tournament despite scoring one less goal than the runners-up:

    b. North zone scored an odd number of goals in their first round Game.

c. South zone, who failed to score in their final match, were beaten by a two-goal margin in the first round.

d. East zone lost their match aginst west zone.

e. All four teams scored goals in the second round matches.

f. West zone scored the same number of goals against east zone as North zone scored aginst them.

43. East zone scored four goals in round two match. Table-A (Matches Played) Round 1 North zone vs South zone West zone vs east zone. Round 2 South zone vs West zone East zone vs North zone Round 3 South zone vs East zone West zone vs North zone. Table-B (Results) Played Won Draw Lost Golas For Goals Against Points East Zone 3_____? 3 4 North Zone 3 ... ? 4 West Zone 3 ... 4 3 3 South Zone 3 ... 2 5 1

44. In certain community, there are thousand married couples. Two thirds of the husbands who are taller than their wives are also heavier and three quarters of the husbands who are heavier than their wives are also taller. If there are 120 wives who are taller and heavier than their husbands, how many husbands are taller and heavier than their wives?

45. Both the Guptas and Sinhas have two young sons, whose ages are under Eleven. The names of the boys, whose ages rounded off to the nearest year are all different, are Rajesh, Praveen, Lalith and Prathap. Taking the ages of the boys only to the nearest year, the following statements are true: Rajesh is three years younger than his brother is. Praveen is the oldest. Prathap is 5 years older than the younger Sinha's boy. Lalith is half as old as one of the Guptha's boys. The total ages of the boys in each family differ by the same amount today as they did five years ago.

46. A long Division Problem: xx) xxxxxxxxx (xxxxxxx xx xxx xx xxx xx xx xx xxx xxx In the complete solution, there are four 5's. Find the missing digits.

47. Following services are operated by Asian airlines between the two are located in different countries with different time zones. As it is normally done, the time shown is the local time-viz IST & TST. Regular Flight Supersonic Flight Arrive Alexandria 17: 10 TST 15: 40 TST Depart Alexandria 20: 50 TST 22: 50 TST Arrived Rampur 23: 40 IST Is the arrival time of supersonic flight into Rampur from Alexandria same as the Arrival time of the Regular flight, assuming each Service-Regular and Supersonic maintains its own constant speed of flight.

48. A, B, C, D, E related. Four of them made these statements each:

a. C is my son-in-law's brother.

b. B is my father's brother.

c. E is my mother-in-law.

d. A is my brother's wife.

49. Who made these statements?

50. A ship is away from the shore by 180 miles. A plane is travelling at 10 times speed of the ship. How long from the shore will they meet?

51. A clock showing 6 o'clock takes 30 secs to strike 6 times. How long will it take to strike 12 at midnight? Ans: 66 seconds.

52. Only boys aged > 16 wear coats. Boys aged > 15 go to watch football. Some more statements are given. What can be said about those who are watching football?

53. There are 3 societies A, B amp; C having some tractors each. A Gives B and C as many tractors as they already have. After some days B gives A and C as many tractors as they have. After some days C gives A and B as many tractors as they have. Finally each has 24 tractors. What is the original No. Of tractors each had in the beginning? Ans: A – 39. B – 21. C – 12.

54. BE $*$ BE = ACB. A, B, C, E are non zero numbers. Find B, E. Ans: B = 1 E = 9.

55. A, B, C, D, E are having numerical values. There are some conditions given:

   a. A = C $\Leftrightarrow$ B! = E

   b. Difference between A and C as same as difference between C and B as same as difference between A and D.

   c. C < A and C > D

56. Then Find A, B, C, D, E.

57. There are six cards, in which, it has two king cards. All cards are turned down and two cards are opened.

   a. What is the possibility to get at least one king?

   b. What is the possibility to get two kings?

58. A person went to a shop and asked for change for 1.15 paise, but he said that he could not only give change for one rupee but also for 50p, 25p, 10p and 5p. What were the coins he had? Ans: 1 $\rightarrow$ 50p 4_____ > 10p 1 $\rightarrow$ 25p.

59. There are 3 nurses and they work altogether only once in a week. No nurse is called to work for 3 consecutive days. Nurse 1 is off on tueseday, thursday and sunday. Nurse 2 is off on saturday. Nurse 3 is off on thursday, sunday. No two nurses are off more than once a week. Find the day on which all the 3 nurses were on work.

60. There are 5 persons A, B, C, D, E and each is wearing a block or white cap on his head. A person can see the caps of the remaining 4 but can't see his own cap. A person wearing white says true and who wears black says false.

   a. A says I see 3 whites and 1 black.

   b. B says I see 4 blacks.

   c. E says I see 4 whites.

   d. C says I see 3 blacks and 1 white.

61. Now Find the caps weared by A, B, C, D and E.

62. There are two women, Kavitha and Shamili and two males Shyam and Aravind, who are musicians. Out of these four one is a Pianist, one Flutist, Violinist and Drummer.

   a. Across Aravind beats Pianist.

   b. Across Shyam is not a Flutist.

   c. Kavitha's left is a Pianist.

d. Shamili's left is not a Drummer.

63. v > Flutist and Drummer are married.

64. $\frac{1}{3}$ rd of the contents of a container evaporated on the 1st day. $\frac{3}{4}$ th of the remaining contents of the container evaporated the second day. What part of the contents of the container are left at the end of the second day?

65. A man covered 28 steps in 30 seconds but he decided to move fast and covered 34 steps in 18 seconds. How many steps are there on the escalator when stationary?

   a. Person1: Most of us are satch J. Person2: Most of us are jute S. Person3: Two of us are satch J. Person4: Three of us are jute J. Person5: I am satch J we have to find who is satch and who is jute. Ans: S: Satch J: Jute.

   b. Four persons are there to cross a bridge they have one torch light.

66. Person A can cross in 1 min.

67. Person B can cross in 2 min.

68. Person C can cross in 5 min.

69. Person D can cross in 10 min.

70. They have to cross bridge with in 17 min. At a time only two persons can cross.

   a. A & B_____ > 2.

   b. A < _____1.

   c. C & D_____ > 10.

   d. B < _____2.

71. V A & B_____ > 2

72. Total 17.

73. What is the maximum number of slices can you obtain by cutting a cake with only 4 cuts?

Ans: 16.