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| **TCS Placement Paper January 2012** | |  |  |
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| 1. A Man Is Standing Before A Painting Of A Man And He Says I Have No Bro And Sis And His [Painted Picture] Father Is My Father’s Son? Ans: His Son  2. One Question Has Last Part Like Difference Between Two Terms Is 9 And Product Of Two Numbers Is 10, What Is The Squares Of Sum Of Numbers? Ans: Thought Process : A-b=9 And Ab = 10 A+b = Sqrt[9^2 + 4\*10] = 11 A= 10 And B=1 So 101 Ans.  3. What Is The Value Of [(3x+8y)/(X-2y)]; If X/2y=2? Ans:10 {The Numerical May Change)  4. One Grandfather Has Three Grandchildren, Two Of Their Age Difference Is 3, Eldest Child Age Is 3 Times Youngest Child’s Age And Eldest Child’s Age Is Two Times Of Sum Of Other Two Children. What Is The Age Of Eldest Child? Ans:15  5 . In One Organization, Material, Labor And Maintenance Are In The Ratio Of 4:6:7, The Material Cost Is: Rs. 100, What Is The Total Cost? Ans: 425  6. Keywords: Density, Reluctance, Sensitivity, Voltage, Current, What Is The Resistance Formula Is “r=V/I”  7. In A Market 4 Man Are Standing .The Average Age Of The Four Before 4 Years Is 45, After Some Days One Man Is Added And His Age Is 49. What Is The Average Age Of All? Ans: 49  8. In A School For A Student Out Of A 100 He Got 74 Of Average For 7 Subjects And He Got 79 Marks In 8th Subject. What Is The Average Of All The Subjects? Ans: 74.625  9. In A Question ,Last Part Has, The Ages Of Two People Has The Ratio Of 6:6 And By Adding The Numbers We Get 44, After How Many Years The Ratio Would Be 8:7? Ans: 8  10. One Train Travels 200m From A To B With 70 Km/Ph And Returns To A With 80kmph, What Is The Average Of Their Speed? Ans: Use Harmonic Mean Formula: Average Speed = 2ab/A+b = 2\*70\*80/150  11. If A is the set of values of x at which F(x)=0, and B is the set of values of x at which g(x)=0, what can you say about the set of values of x at which f(x)g(x)=0? (A) It is the intersection of A and B. (B) It is the union of A and B. (C) It is a proper subset of the union of A and B. (D) It is the Cartesian product of A and B.  12. Evaluate the following expressions: (A) 4! = (B) 5! \* 5! = (C) 3! \* 0! = (D) 4! / 0! = (E) 6! / (2! \* 4!) =  13. The present age of a father is 3 years more than three times the age of his son.Three years hence,father’s age will be 10 years more than twice the age of the son.Find the present age of the father.  14. One year ago the ratio of Ramu & Somu age was 6:7respectively. Four years hence their ratio would become 7:8. How old is Somu.  15. The length of a running trsain in 30% more than the length of another train B runnng in the opposite direction.To find out the speed of trtain B,which of the following information given in the statements P & Q is sufficient?. P : The speed of train A is 80 kmph Q : They took 90 sec to cross each other A. Either P & Q is sufficient B. Both P & Q are not sufficient C. only Q is sufficient D. Both P & Q are neeed  16.Pointing to a photograph, a man said, “I have no brother or sister but that man’s father is my father’s son.” Whose photograph was it ?  17. One day Jack left home and cycled 10 km southwards , turned right and cycled 5 km and turned right and cycled 10 km and turned left and cycled 10 km. How many kilometers will he have to cycle to reach the home straight ?  18-20) Each of the four friends Ms A, Mr. B, Ms C and Mr. D vacationed at one of the four places (each person vacationed at only one place) – Japan, Nepal, Egypt and Spain (not necessarily in this order). Each visited the places in one of the following months: January, March, May and November, and everyone went in a different month. i.C vacationed immediately before A but after the man who went for a vacation to Japan. ii.The person who left in March did not go to Egypt and his friend vacationed in May. iii. The person who went to Nepal vacationed immediately after D did. iv. A and B visited the friend, who went to Spain, to see his pictures.  18. Where did Ms C spend her vacations? a. Japan b. Nepal c. Egypt d. Spain e. Cannot be determined  19. Who vacationed in the month of March? a. Ms A b. Mr B c. Ms C d. Mr D e. Both Mr. B and Mr. C  20. Nepal was vacationed in which month? a. Jan. b. Mar. c. May d. Nov. e. Feb  21. A Question Like A Wire Is Wound Whose Resistance Is Some 132. 44647 Ohms. If A Voltage Of 30 mv, 296 Ma Current Is Applied To It What Is The Resistance. Clue: Use Formula R= V/I. Beware Of Voltage & Current Particularly Kilo Or Millie Etc. Units.  22. In A City, There Are 100 Buildings Numbered By Corporation Between 0-100, How Many Twos Are Shown In Door, Ans: 2,12,20,21,22,23,24,25,26,27,28,29,32,42,52,62,72,82,92=(20 Twos)  23) A Hollow Space On Earth Surface Is To Be Filled. Total Cost Of Filling Is Rs20000. The Cost Of Filling Per Mt3 Is Rs 225 .How Many Times A Size Of 3 Mt3 Soil Is Required To Fill The Hollow Space? Ans: 20000/225=88.88 88.88/3=29.62 So 30 Times Of 3 Mt3 Is Required To Fill The Space Completely  24) There Are Different Things Like P,Q,R,S,T,U,V.  We Can Take P And Q Together. If R And S Are Taken Together Then T Must Has To Be Taken. U And V Can Be Taken Together Can Be Taken With P Or S. Every Thing Can Be Taken Together Except A) P B) T C) V D) S Ans: T  25) New Town Is Straight To The North Of New York. A High Way M Runs From Newtown Making An Angle Of 61 Degree South East. From New York There Is Also An High Way N Which Runs Northeast 61 Degrees. If High Ways M And N Are Straight Then Find out  The Acute Angle Made At Their Intersection Point. Ans: 180-(61+61)=58 (The High Ways Make A Triangle The Addition Of 18. One Grandfather Has Three Grandchildren, Two Of Their Age Difference Is 3, Eldest Child Age Is 3 Times Youngest Child’s Age And Eldest Child’s Age Is Two Times Of Sum Of Other Two Children. What Is The Age Of Eldest Child? Ans:15  26). In A Market 4 Man Are Standing .The Average Age Of The Four Before 4years Is 45,Aftyer Some Days One Man Is Added And His Age Is 49.What Is The Average Weight Of All? Ans: 49  27) Keywords: One Organization ,Material Labor And Maintenance Are In The Ratio Of 4:6:7,The Material Cost Is:100,What Is The Total Cost? Ans: 425  28). Keywords: Density, Reluctance, Sensitivity, Voltage ,Current, What Is The Resistance Formula Is “r=V/I”  29). Keywords: Sports Readers,10 Tables,4chairs Per Table, Each Table Has Different Number Of People Then How Many Tables Will Left Without At Least One Person? Ans : 6  30). Keywords: Die, Card, Coin, B/N 2 To 12 Ans: All Are Equal  31). In A School For A Student Out Of A 100 He Got 74 Of Average For 7 Subjects And He Got 79 Marks In 8th Subject. What Is The Average Of All The Subjects? Ans: 74.625  32). In A Question ,Last Part Has ,The Ages Of Two People Has The Ratio Of 6:6 And By Adding The Numbers We Get 44,After How Many Years The Ratio Would Be 8:7? Ans: 8  33.If 1 alpha = 2 betas and 1 beta = 3 gammas, how many alphas are equal to 36 gammas? A. 6 B. 12 C. 36 D. 72 E. 108  34. Price of One Pack Projected Number of Packs Sold $0.75 10,000 $0.80 9,000 $0.85 8,000 $0.90 7,000 $0.95 6,000 $1.00 5,000  The chart above describes how many packs of gum a company expects to sell at a number of possible prices per pack. Which of the following equations best describes the  relationship shown in the chart, where n indicates the number of packs sold and p represents the price in dollars of one pack? A. n= -20,000p - 25,000 B. n= -20,000p + 25,000 C. n=-200p -250 D. n = 200p + 250 E. n = 20,000p - 25,000  35.What is the average of the first 50 positive integers?  A. 25 B. 25.5 C. 26 D. 26.5 E. 27  36.At Joes Steakhouse the hourly wage for a chef is 20% greater than that of a dishwasher, and the hourly wage of a dishwasher is half as much as the hourly wage of a manager. If a managers wage is $8.50 per hour, how much less than a manager does a chef earn each hour? A. $5.95 B. $4.25 C. $5.10 D. $3.25 E. $3.40  37. A florist buys roses at $0.50 a piece and sells them for $1.00 a piece. If there are no other expenses, how many roses must be sold in order to make a profit of $300? A. 100 B. 150 C. 200 D. 300 E. 600  38. How many 6 digit telephone numbers can be constructed with the digits 0, 1, 2, ..., 9 if each number starts with 35 and no digit appears more than once? A) 2670 (B)2680 (C)1670 (D) 1580 (E)1680  39. If the average cost of producing one widget decreases from $12.50 to $10.75, what is the percent of the decrease? (A) 10 (B) 12.5 (C) 14 (D) 15 (E) 16  40. If a + b – c = d, and if a – b + c = e, then a = (A) 1/2 (d + e) (B) d – e (C) 2d + e (D) d + e (E) 2(d + e) |