CAPGEMINI PAPER ON 14th MAY AT KOLKATA

Time:60 minsÂ Â Â Â Â Â Â Â Set 2Â Â Â Â Â Â Â Section A

Â

1. Find min value of fn:

Â |-5-x| + |2-x|+|6-x|+10-x|; where x is an integer

Â Â Â Â Â Â Â Â Â Â Â 0/17/23/19

2. units digit in expansion os 2 raised to 51 is:

Â Â Â Â Â Â Â Â Â Â Â Â 2/4/6/8

3. 2 men at same tym start walking towards each other from A n B 72 kms apart. sp of A is 4kmph.Sp ofÂ B is 2 kmph in 1st hr,2.5 in 2nd, 3 in rd. n so on…when will they meet

Â iÂ Â in 7 hrs

iiÂ at 35 kms from A

iii in 10 hrs

iv midway

Â

4. (8*76+19*?-60) / (?*7*12+3-52)=1

Â 5/2/1/3

Â

5. 45 grinders brought @ 2215/-.transpot expense 2190/-.2760/- on octroi . Find SP/piece to make profit of 20%

Â 2585/2225/2670/3325

Â

6. in a 2 digit no unit’s place is halved and tens place is doubled.diff bet the nos is 37.digit in unit’s place is 2 more than tens place.

Â 24/46/42/none

Â

7. if x-y + z = 19 , y + z =20 , x-z=3 , find d value of x+4y-5z

Â 22/38/17/none

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8. Find approx value of 39.987/0.8102+1.987*18.02

Â 72/56/86/44

Â

9. If the ratio of prod of 3 diff comp's A B & C is 4:7:5 and of overall prod last yr was 4lac tones and if each comp had an increase of 20% in prod level this yr what is the prod of Comp B this yr?

Â 2.1L/22.1L/4.1L/none

Â

10. If 70% of a no. is subtracted from itself it reduces to 81.what is two fifth of that no.?

Â 108/54/210/none

Â

11. If a certain sum of money at SI doubles itself in 5 yrs then what is d rate?

Â 5%/20%/25%/14.8%

Â

12. If radius of cylinder and sphere r same and vol of sphere and cylinder r same what is d ratio betn the radius and height of the cylinder

Â i.Â R= H

ii. R= (3/4)H

iii. R = (4/3)H

iv. R=2/3H

Â

13. Which one of the foll fractions is arranged in ascending order

Â Â Â Â Â Â Â Â Â Â Â Â Â i.Â 9/11,7/9,11/13,13/14

iiÂ 7/8,9/11,11/13,13/14

iii 9/11,11/13,7/8,13/14

iv none

14. A is 4 yrs old and B is thrice A>when A is 12 yrs, how old will B be?

Â Â Â Â Â Â Â Â Â Â 16/20/24/28

15. Boat goes downstream from P to Q in 2hrs, upstream in 6hrs and if speed of stream was ½ of boat in still water. Find dist PQ

Â Â Â Â Â Â Â Â Â Â Â Â 6/4/10/none

16. Fresh Grapes contain 90% water by wt. Dried grapes contain 20% water by %age. What will b wt of dried grapes when we begin with 20 kg fresh grapes?

Â Â Â Â Â Â Â Â Â Â Â Â 2kg / 2.4kg / 2.5kg /none

17. How many 5 digit no. can b formed wit digits 1, 2, 3,4,5,6 which r divisible by 4 and digits not repeated

Â Â Â Â Â Â Â Â Â Â Â Â 144 / 168 / 192 / none

18. Asish was given Rs. 158 in denominations of Rs 1 each. He distributes these in diff bags, such that ne sum of money of denomination betn 1 and 158 can be given in bags. The min no. of such bags reqd

Â Â Â Â Â Â Â Â Â Â Â Â 10 / 17 / 15 / none

19.There is a rectangular Garden whose length and width are 60m X 20m.There is a walkway of uniform width around garden. Area of walkway is 516m^2. Find width of walkway

Â Â Â Â Â Â Â Â Â Â Â Â 1/2/3/4

20. In a race from pt. X to pt Y and back, Jack averages 0 miles/hr to pt Y and 10 miles/hr back to pr X.Sandy averages 20 miles/hr in both directions. If Jack and Sandy start race at same tym, who'll finish 1st

Â Â Â Â Â Â Â Â Â Â Â Â Jack/Sandy/they tie/Impossible to tell

21. A man engaged a servant on a condn that he'll pay Rs 90 and also give him a bag at the end of the yr. He served for 9 months and was given a turban and Rs 65. So the price of turban is

Â Â Â Â Â Â Â Â Â Â Â Â i. Rs 10 / 19 / 0 / 55

22. Three wheels make 36, 24, 60 rev/min. Each has a black mark on it. It is aligned at the start of the qn. When does it align again for the first tym?

Â Â Â Â Â Â Â Â Â Â Â 14/20/22/5 sec

Â

23. If 1= (3/4)(1+ (y/x)) then

Â Â Â Â Â Â Â Â Â Â Â i.Â x=3y

ii.Â x=y/3

iii.Â x=(2/3)y

iv.Â none

24. The sum of six consecutive odd nos. is 888. What is the average of the nos.?

Â Â Â Â Â Â Â Â Â Â Â Â i.Â 147

ii.Â 148

iii.Â 149

iv.Â 146

25. 1010/104*102=10?

i.Â 8

ii.Â 6

iii.Â 4

iv.Â none

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Section B

Direction for Qn 1-8

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Ans A using I only

Ans B Â using II only

Ans C using both I and II

Ans D not solvable

Â Raman and Gaurav Brought eggs from a vendor. How many eggs were bought by each of them

i.Â Â Â Â Â Â Raman bought half as many as Gaurav

ii.Â Â Â Â Â Â The dealer had a stock of 500 eggs at the beginning of day What is the age of Ramprakash?

i.Â Â Â Â Â Â Â Ramprakash was born when his father was 26 yrs old

ii.Â Â Â Â Â Â Ramprakash's mothers age is 3yrs less than his father's How much time is reqd for downloading the software?

i.Â Â Â Â Â Â Â The Data transfer rate is 6 kbps

ii.Â Â Â Â Â Â The size of the software is 4.5 megabytes Sanjay and Vijay started their journey from Mumbai to Pune. Who reached Pune first?

i.Â Â Â Â Â Â Â Sanjay overtakes two times Vijay and Vijay overtakes Sanjay two times

ii.Â Â Â Â Â Â Sanjay started first Is the GDP of country X higher than Country Y?

i.Â Â Â Â Â Â Â GDP's of X and Y has been increasing at a compounded annual growth rate of 5% and 6% over he past 5 yrs

ii.Â Â Â Â Â Â Â 5 yrs ago GDP of X was 1.2 times Y A boat can ferry 1500 passengers across a river in 12 hrs. How many round trips does it make during the journey?

i.Â Â Â Â Â Â Â Â The boat can carry 400 passengers at a time

ii.Â Â Â Â Â Â Â During its journey, the boat takes 40 mins time each way and 20 mins waiting time at each end. What are the values of m and n?

i.Â Â Â Â Â Â Â Â n is an even integer, m is odd integer and m is greater than n.

ii.Â Â Â Â Â Â Â The product of m and n is 30 How much is the weight of 20 mangoes and 30 oranges?

i.Â Â Â Â Â Â Â 1 orange weighs twice that of 1 mango

ii.Â Â Â Â Â Â Â 2 mangoes and 3 oranges weigh 2 kg

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Direction for Qn 9-12

Five teams participated in Pepsi Cup. Each team played against each other. The top teams played finals. A win fetched 2 pts and a tie 1 point

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1)Â Â Â Â Â South Africa were in the finals

2)Â Â Â Â Â India defeated SA but failed to reach the finals

3)Â Â Â Â Â Australia lost only one match in the tournament

4)Â Â Â Â Â The match between India and Sri Lanka was a tie

5)Â Â Â Â Â The undefeated team in the league matches lost in the finals

6)Â Â Â Â Â England was one of the best teams that did not qualify

Â Who were the finalists?

i.Â Â Â Â Â Â SA & India

ii.Â Â Â Â Â Â Aus & SL

iii.Â Â Â Â Â SA & SL

iv.Â Â Â Â Â none Who won the finals?

i.Â Â Â Â Â Â Aus

ii.Â Â Â Â Â SL

iii.Â Â Â Â Â SA

iv.Â Â Â Â Â Can’t be determined How many matches did India Win?

i.Â Â Â Â Â Â 0

ii.Â Â Â Â Â 1

iii.Â Â Â Â Â 2

iv.Â Â Â Â Â can’t be determined What was the outcome of the India England Match

i.Â Â Â Â Â Â India won

ii.Â Â Â Â Â England won

iii.Â Â Â Â It was a tie

iv.Â Â Â Â Can’t be determined

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Direction for Qn 13-14

These qns are based on situations given below:

7 Uni crick players are to be honored at a special luncheon. The players will be seated on a dais along one side of a single rectangular table.

A and G have to leave the luncheon early and must be seated at the extreme right end of table, which is closest to exit.

B will receive Man of the Match and must be in the centre chair

C and D who are bitter rivals for the position of Wicket keeper dislike one another and should be seated as far

apart as possible

E and F are best friends and want to seat together.

Â Which of the foll may not be seated at either end of the table?

i.Â Â Â Â Â Â Â C

ii.Â Â Â Â Â Â Â D

iii.Â Â Â Â Â G

iv.Â Â Â Â Â F Which of the foll pairs may not be seated together?

i.Â Â Â Â Â Â Â E & A

ii.Â Â Â Â Â Â B & D

iii.Â Â Â Â Â C & F

iv.Â Â Â Â Â G & D

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Direction for Qn 15-18

An employee has to allocate offices to 6 staff members. The offices are no. 1-6. the offices are arranged in a row and they are separated from each other by dividers>hence voices, sounds and cigarette smoke flow easily from one office to another

Miss R needs to use the telephone quite often throughout the day. Mr. M and Mr. B need adjacent offices as they need to consult each other often while working. Miss H is a senior employee and his to be allotted the office no. 5, having the biggest window.

Mr D requires silence in office next to his. Mr. T, Mr M and Mr. D are all smokers. Miss H finds tobacco smoke allergic and consecutively the offices next to hers are occupied by non-smokers. Unless specifically stated all the employees maintain an atmosphere of silence during office hrs.

Â The ideal candidate to occupy office farthest from Mr. B will be

i.Â Â Â Â Â Â Â Miss H

ii.Â Â Â Â Â Â Â Mr. M

iii.Â Â Â Â Â Mr. T

iv.Â Â Â Â Â Mr. D The three employees who are smokers should be seated in the offices

i.Â Â Â Â Â Â Â 1 2 4

ii.Â Â Â Â Â Â Â 2Â 3 6

iii.Â Â Â Â Â Â 1 2 3

iv.Â Â Â Â Â Â 1 2 3 The ideal office for Mr. M would be

i.Â Â Â Â Â Â Â 2

ii.Â Â Â Â Â Â 6

iii.Â Â Â Â Â 1

iv.Â Â Â Â Â 3 In the event of what occurrence within a period of one month since the assignment of the offices would a request for a change in office be put forth by one or more employees?

i.Â Â Â Â Â Â Mr D quitting smoking

ii.Â Â Â Â Â Mr. T taking over duties formally taken care of by Miss R

iii.Â Â Â Â The installation of a water cooler in Miss H's office

iv.Â Â Â Â Â Mr. B suffering from anemia

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Direction for Qn 19-20

A robot moves on a graph sheet with x-y axes. The robot is moved by feeding it with a sequence of instructions. The different instructions that can be used in moving it, and their meanings are:

InstructionÂ Â Â Â Â Â Â Meaning

GOTO(x,y)Â Â Â Â Â move to pt with co-ord (x,y) no matter where u are currently

WALKX(P)Â Â Â Â move parallel to x-axis through a distance of p, in the +ve direction if p is +ve and in –ve if p is –ve

WALKY(P)Â Â Â Â move parallel to y-axis through a distance of p, in the +ve direction if p is +ve and in –ve if p is –ve

Â The robot reaches point (5,6) when a sequence of 3 instr. Is executed, the first of which is GOTO(x,y) , WALKY(2), WALKY(4). What are the values of x and y??

i.Â Â Â Â Â 2,4

ii.Â Â Â Â 0,0

iii.Â Â Â 3,2

iv.Â Â Â 2,3 The robot is initially at (x.y), x>0 and y<0. The min no. of Instructions needed to be executed to bring it to origin (0,0) if you are prohibited from using GOTO instr. Is:

i.Â Â Â Â Â 2

ii.Â Â Â Â 1

iii.Â Â Â Â x + y

iv.Â Â Â 0

Â

Direction for Qn 21-23

Ten coins are distr. Among 4 people P, Q, R, S such that one of them gets a coin, another gets 2 coins,3rd gets 3 coins, and 4th gets 4 coins. It is known that Q gets more coins than P, and S gets fewer coins than R

Â If the no. of coins distr. To Q is twice the no. distr. to P then which one of the foll. is necessarily true?

i.Â Â Â Â Â R gets even no. of coins

ii.Â Â Â Â R gets odd no. of coins

iii.Â Â Â S gets even no. of coins

iv.Â Â Â S gets odd no. of coins If R gets at least two more coins than S which one of the foll is necessarily true?

i.Â Â Â Â Â Q gets at least 2 more coins than S

ii.Â Â Â Â Q gets more coins than P

iii.Â Â Â Â P gets more coins than S

iv.Â Â Â Â P and Q together get at least five coins If Q gets fewer coins than R, then which one of the foll. is not necessarily true?

i.Â Â Â Â Â P and Q together get at least 4 coins

ii.Â Â Â Â Q and S together get at least 4 coins

iii.Â Â Â R and S together get at least 5 coins

iv.Â Â Â P and R together get at least 5 coins

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Direction for Qn 24-25

Elle isÂ 3 times older than Zaheer. Zaheer is ½ as old as Waheeda. Yogesh is elder than Zaheer.

Â What is sufficient to estimate Elle’s age?

i.Â Â Â Â Â Zaheer is 10 yrs old

ii.Â Â Â Â Yogesh and Waheeda are both older than Zaheer by the same no of yrs.

iii.Â Â Â Both of the above

iv.Â Â Â None of the above Which one of the foll. statements can be inferred from the info above

i.Â Â Â Â Â Â Yogesh is elder than Waheeda

ii.Â Â Â Â Â Elle is older than Waheeda

iii.Â Â Â Â Elle's age may be less than that of Waheeda

iv.Â Â Â Â None ofÂ the above

P.S.: Â all sets were d same….only qn nos were changed