CAPGEMINI PAPER ON 14th MAY

Time:60 mins Set 2

Section A

1. Find min value of fn:

$$|-5-x| + |2-x| + |6-x| + 10-x|$$
; where x is an integer $0/17/23/19$

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

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 of B is 2 kmph in 1st hr,2.5 in 2nd, 3 in rd. n so on...when will they meet
- i in 7 hrs

ii at 35 kms from A

iii in 10 hrs

iv midway

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

5/2/1/3

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

2585/2225/2670/3325

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.

24/46/42/none

- 7. if x-y+z=19, y+z=20, x-z=3, find d value of x+4y-5z
- 22/38/17/none

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

72/56/86/44

- 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?
- 2.1L/22.1L/4.1L/none
- 10. If 70% of a no. is subtracted from itself it reduces to 81.what is two fifth of that no.? 108/54/210/none
- 11. If a certain sum of money at SI doubles itself in 5 yrs then what is d rate? 5%/20%/25%/14.8%
- 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
- i. R = H
- ii. R = (3/4)H
- iii. R = (4/3)H
- iv. R=2/3H
- 13. Which one of the foll fractions is arranged in ascending order
 - i. 9/11,7/9,11/13,13/14
- ii 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?

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

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?

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

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

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

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

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

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?

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

i.
$$x=3y$$

ii.
$$x=y/3$$

iii.
$$x=(2/3)y$$

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

- 25. 1010/104*102=10?
- i. 8
- ii. 6
- iii. 4
- iv. none

Section B

Direction for Qn 1-8

Ans A using I only

Ans B using II only

Ans C using both I and II

Ans D not solvable

- 1. Raman and Gaurav Brought eggs from a vendor. How many eggs were bought by each of them
- i. Raman bought half as many as Gaurav
- ii. The dealer had a stock of 500 eggs at the beginning of day
 - 2. What is the age of Ramprakash?
- i. Ramprakash was born when his father was 26 yrs old
- ii. Ramprakash's mothers age is 3yrs less than his father's
 - 3. How much time is regd for downloading the software?
- i. The Data transfer rate is 6 kbps
- ii. The size of the software is 4.5 megabytes
 - 4. Sanjay and Vijay started their journey from Mumbai to Pune. Who reached Pune first?
- i. Sanjay overtakes two times Vijay and Vijay overtakes Sanjay two times
- ii. Sanjay started first
 - 5. Is the GDP of country X higher than Country Y?
- i. 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. 5 yrs ago GDP of X was 1.2 times Y
 - 6. A boat can ferry 1500 passengers across a river in 12 hrs. How many round trips does it make during the journey?
- i. The boat can carry 400 passengers at a time
- ii. During its journey, the boat takes 40 mins time each way and 20 mins waiting time at each end.

- 7. What are the values of m and n?
- i. n is an even integer, m is odd integer and m is greater than n.
- ii. The product of m and n is 30
 - 8. How much is the weight of 20 mangoes and 30 oranges?
- i. 1 orange weighs twice that of 1 mango
- ii. 2 mangoes and 3 oranges weigh 2 kg

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

- 1) South Africa were in the finals
- 2) India defeated SA but failed to reach the finals
- 3) Australia lost only one match in the tournament
- 4) The match between India and Sri Lanka was a tie
- 5) The undefeated team in the league matches lost in the finals
- 6) England was one of the best teams that did not qualify
 - 9. Who were the finalists?
- i. SA & India
- ii. Aus & SL
- iii. SA & SL
- iv. none
 - 10. Who won the finals?
- i. Aus
- ii. SL
- iii. SA
- iv. Can't be determined
 - 11. How many matches did India Win?
- i. 0
- ii. 1
- iii. 2
- iv. can't be determined
 - 12. What was the outcome of the India England Match

- i. India won
- ii. England won
- iii. It was a tie
- iv. Can't be determined

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.

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

- i. C
- ii. D
- iii G
- iv. F

14. Which of the foll pairs may not be seated together?

- i. E & A
- ii. B & D
- iii. C&F
- iv. G&D

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.

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

- i. Miss H
- ii. Mr. M
- iii Mr T
- iv. Mr. D

16. The three employees who are smokers should be seated in the offices

- i. 124
- ii. 2 3 6
- iii. 123
- iv. 1 2 3

17. The ideal office for Mr. M would be

- i. 2
- ii. 6
- iii 1
- iv. 3

18.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. Mr D quitting smoking
- ii. Mr. T taking over duties formally taken care of by Miss R
- iii. The installation of a water cooler in Miss H's office
- iv. Mr. B suffering from anemia

Direction for On 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:

Instruction Meaning

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

WALKX(P) 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) 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

- 19. 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. 2,4

- ii. 0,0
- iii. 3,2
- iv. 2,3
 - 20. 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. 2
- ii. 1
- iii. x + y
- iv. 0

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

- 21. 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. R gets even no. of coins
- ii. R gets odd no. of coins
- iii. S gets even no. of coins
- iv. S gets odd no. of coins
 - 22. If R gets at least two more coins than S which one of the foll is necessarily true?
- i. Q gets at least 2 more coins than S
- ii. Q gets more coins than P
- iii. P gets more coins than S
- iv. P and Q together get at least five coins
 - 23.If Q gets fewer coins than R, then which one of the foll. is not necessarily true?
- i. P and Q together get at least 4 coins
- ii. Q and S together get at least 4 coins
- iii. R and S together get at least 5 coins
- iv. P and R together get at least 5 coins

Direction for Qn 24-25

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

- 24. What is sufficient to estimate Elle's age?
- i. Zaheer is 10 yrs old
- ii. Yogesh and Waheeda are both older than Zaheer by the same no of yrs.
- iii. Both of the above
- iv. None of the above
 - 25. Which one of the foll. statements can be inferred from the info above
- i. Yogesh is elder than Waheeda
- ii. Elle is older than Waheeda
- iii. Elle's age may be less than that of Waheeda
- iv. None of the above