CTS Sample Paper

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College	:	GCT

1. An apple seller is having some apples. He is selling half of the apple what he has plus half the apple to the first customer. In the same way he sells the remaining apple to 7 customers. After selling to 7 customers he has no apple with him .No. of apples he have at the beginning?
a. 127   b. 128   c. 129   d. none
Ans: 127

2. A batsman outs for 23 runs in one innings which increases his average 15 to 16. if he has to get 18 as average what score is to made by him in the same innings?
Ans: 39.

3. Combination of 2,3,6,7 how many possible combination divisible by 4?
Ans: 8

4.two trains are traveling in 60 kmph speed on same track towards each other when the distance b/w them is 18 km a fly is going to start flying b/w them in 80kmph speed. Find the traveling path distance of the fly up to when it is going to crush by the 2 trains?
Ans:12km.

5. Four no.s 5,8,2,1 form four digit no.s as A, B, C, D then find the sum of the four digit nos?
Ans :

6. Bridge: Four men can cross the bridge in 3 ,7 ,13, 17 min only two can cross the bridge at a time , the time taken by the 2 to cross the bridge is equal to the time taken by the slowest of the 2 . find the minimum time to all of them to cross the bridge?
Ans:24

7. 1000 doors-
I man opens all the doors,
II man closes the doors of multiples of 2,
III man opens the doors of multiples of 3,
IV man closes the doors of multiples of 4,
How many doors are open?
Ans:

8. I was married 10 years before my wife was sixth member of my family and now I have a baby and today my father died and the average age of my family was same as it was 10 years before. Find my fathers age when I was married?

Ans: 60(fa=50+baby)

9. Side of a square 7cm, 4 equal circles drawn at the vertices of the square as its centers. Find the area of the circle lying outside square?
Ans: 115.5

10. It takes five minutes to pass rumor from one person to two other persons. The tree of rumor continues. Find how many min. it takes to spread the rumor to 768 persons
ans:50

11. There are 9 coins one of 9 is less weighted and others has equal weights. Find the minimum no of balances to find the defective coin
ans:2

12. if x>y & n> m which of following data is false?
Ans: x-m<y-n

13. There are no of x & no of balls. If 3 balls are placed in each x then 1x is left what is the total no of balls?
a. 12   b. 18   c.   21   d. none

14. There are 1997 doors in the cave 1997 people came out from each door one door is closed . that many people come out from each door this continues till a single person comes of a single open door.find no of people inside the cave?
Ans:

15. there are 4 teams a, b , c , d playing game if any one team loses it will pay twice the money to all other team, they play 3 games b, c, d loses one game each in order. Finally a,b has Rs 40 each & c has Rs80 ,d has Rs 16
which team has started with min. money?
Ans:a
16. Which team has stated with max. Money?
    Ans:b
17. Product of prime nos b/w 1 to 20
 ans:end with zero.
18. No. of terms b/w 1 & 999 not divisible by 8 or 12
Ans: 832

19. there are no. of houses on both side of a road ,on one side of the houses are numbered in increasing order (1,2,3,4,…..) on their side houses are numbered in down order ,
at house no. 10 opp house no is 23 .Find the no. of houses(Even no of houses are provided)
Ans: 32

20.In 1996, income after tax deduction of upper classes increases by 3% than in 1995
a. no. of upper class population increases
b. no. of upper class population decreases
c. no. of lower class population increases

d. no. of lower class population decreases
<Likewise reasoning>

21.A man gets x/y of Rs.10 & after y/x of Rs 10 , he gives out Rs 20
a. He loses always   b. may/may not lose   c. cannot always lose
22. Petrol price increases by 40% expected Like in 0
Taxi & Auto charges. so charges may use public transport system What do you infer?

213.All peoples use a bus -paid equally -40 seats in a bus. Bus charges 70.37Rs
how many seats are left unfilled.

24.(train did not stop at Calcutta)2500km distance b/w Mumbai & Calcutta. Calculate the average speed .
1. Speed from Mumbai to Calcutta is 25hrs
2.speed during return journey was 150km/hr
3. speed during the forward journey is 100km/hr
select a. (ans) if it can be answered using each of the given above
select b. if it can be answered using non of them
select c. if it can be using two of them
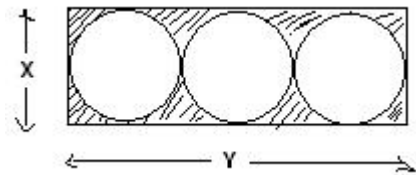select d. non of them required to ans
Ans: c

25. 3 bird crosses a point at the same time instant with equal speed two of the birds fly exactly in opp. dir . After they cross the point at instant of time. The 3 birds are joined by st. lines to form a triangle as
a .Isosceles b. Equilateral   c.right angled   d. rt. Angle isosceles

26.There are two parallel st. lines in north ,south dir. A lives in street 1 ,B lives in street 2. A goes 10 km north & B goes south8km to meet east west road. A moves 4km east & B goes 6km west to meet each other. Find the distance b/w houses owned by A & B.(ans:22)
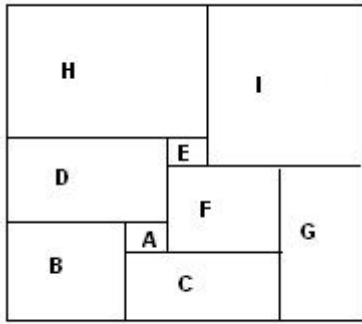
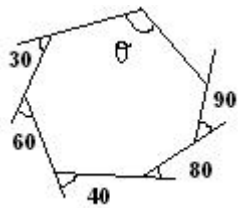27. Find the area of the shaded portion
ans: $3x^2(1-\prod/4)$

28.A,B,C,D,E,F,G,H,I are also squares which are combined in a square. Area of B is 81
side of A is 1. find the area of I
Ans:364

All are squares

29. Find the Angle θ?

a. 60   b.45   c.120   d.none

Ans:120