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Tulasi Iam Sending MBT Paper.

Bye.

Phani.

> MBT-1999-iit-delhi

> ARTHAMATIC SECTION

> (1) if a boat is moving in upstream with  $v_1$  km/hr and in the down stream

> it is moving with  $v_2$  km/hr then what is the speed of the stream.

> ans: 13 check the values of  $v_1$  and  $v_2$  are given

> to find ans ( $v+s = v_1$ ,  $v-s = v_2$  find the boat velocity)

> (2)  $0.75 * 0.75 * 0.75 - 0.001$

> -----

>  $0.75*0.75-0.075+0.01$

> (3) A can work done in 8 days

> B can work three times faster than the A;

> C can work five times faster as the A;

> ans : 8/9 it is correct place blindly.

> (4) one answer is 200/3 % it is perfectly correct we cannot recollect

> the prob. so place it blindly.

> (5) A car is journeyed a certain distance in 7 hrs in forward journey

> in the return journey increased speed 12km/hr takes the time 5 hrs

.

> what is the distance ans: 210 it is perfect place blindly.

> (6) instead of multiplying by 7 to a number dividing by 7 what is

> the percentage of error

> ans we don't know but he has given 14 18 25 and some answers less than

> (7)  $x + 4y$

> ----- relation between  $x$  and  $y$  is  $x/2y = 3/2$  ie  $x = 3y$  find

the

>  $x - 2y$  ratio ans: 7 place it blindly.

> (8) a man buys a liquid by 12 lts and the mixture is of 20% liquid in

water

> then he makes it in 30% mixture then what is the % of liquid with water.

> (9) if a man buys 1lt of milk for 12rs and mixes with 20% of water and

> sells it for rs15 then what is percentage of gain

> (10) A pipe can fill a tank in 30 min B can fill in 28 min then if 3/4

th

> of tank can be filled by B pipe and afterwards both are opened then

> how much time is required by both the pipes to fill the tank completely.

> note: the values of A and B may slightly vary be ware.

>(11) on an item a company gave 25% discount then they get 25% profit  
>if it gives 10% discount then what is the profit.  
>ans: 30% it is correct place blindly.  
>(12)  
>i will send the remaining problems if i get remembered o.k this  
section  
>contain 29 questions.  
>in fourth section.  
>1. All chairs laugh.  
> some birds laugh.  
>2. some green are blue  
>no blue is white.  
>3 all scientists are fools.  
>all fools are literates.  
>only these questions see rs agarwal reasoning verbal and nonverbal  
book  
>new edition as the page numbers i already sended to you.  
>answers he changed slitley see.  
>From two fig 6 questions regarding the  
swimmers, girls, tennis players, tall and  
>second one on politicians, graduates, parliament members, both question  
s  
>are same given so mugup and go to exam and place blindly i already  
>sended the page numbers in previous mail.  
>series: (1) R, M, (...), F, D, (...)  
> ans: I, C  
>(2) (...), ayw, gec, mki, sqo ans: usq.  
>(3) 1, 3, 4, 8, 15, 27, ans: 50  
>(4) 0, 2, 3, 5, 8, 10, 15, 17, 24, 26, .. ans: 35  
>(5) 2, 5, 9, 19, 37, .. ans: 75  
>these are the correct answers place it blindly.  
>the figure series which i had already send in the earlier paper is  
>same and one extra question is their it is this type  
> box type in side the box line and dot.  
> this type see in the new edition rs agarwal a box is their  
>in the answer so try for question in rs agarwal  
> see rs agarwal for statements and assumptions questions.  
>cut off will be around 30 out of 105 Bso place only the known problem  
s  
so  
>place only correct problems.  
>the above 35 questions are enough to qualify.  
>remaining questions if know exact answers then place .  
>otherwise simply leave it.

5 mtechs got selected for int.& only one from chem. got the  
job. Interview is personal. small software technical ques. about language

(This is from IITM)

MBT:

one to one negative marking is there.it is tough to qualify unless u know the paper.totally there are 105 questions. 70 min.  
 three flow sheets----- 10 min.  
 sections are quantitative(23),analytical(about 20) ,series&venn diagrams,logical(20) questions from a passage (about 10). time span for each section is different.sit at the back so that u can turn pages if u want.different colored papers are used.  
 for flow sheets

first one is relatively easy

1.u will be given conditions like  
 if a wins he gets 100 pts,if b wins he gets 50 pts etc  
 2.there is flow sheet& there are empty cells(4) at "yes' or 'no" decision points.

3.for each cell 4 choices will be given which should be chosen by following through initial conditions &flow sheet logic.

4.rem. -ve marking is there. no verbal questions.

rs aggarwals verbal& nonverbal book

verbal---

pg. 254 pr. 53 to56(almost same)

246 eg.2

pg 104 exer.3a about 5to 6 series qu.are there.so do well

pg.354-355 8,13,

6th doubt

4 conclusions r there in all ques.

pg.115---qu.36

nonverbal---pg.5

41,54,108,145,158

241 is doubtful

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ans. to one quant. is 200/3 %

anals.....

1.six persons will be there.

killer,victim,hangman,judge,police,vitness

a,b, c,d,e,f

u have to match

conditions like,a is the last person to the victim alive,will be given

as

clues.so we can conclude that a is the killer.

this is an easy one .paragraph will be very big .don' worry

5 to 6 ques.

2.

5 persons will be there.

cashier, clerk,buyer,manager,floorwalker(check in info. paper for exact

ques.)

a,b,c,d,e will be their names.

conditions will be given&we have to match who is who

3 r women & 2 r men in this  
 sample condition,  
 cashier & clerk if get married, b will be wise man  
 mrs. c husband has some business prob with manager  
 manager & cashier (or clerk) r classmates  
 etc. will be given  
 do quantitative qu. from back.....  
 data graphs on turnover, gross profit & net profit will be given &  
 u have to extract data from that & find out few ratios. (easy one)

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 mumbai99:--->>>>

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This

I) Distribution of workers in a factory according to the no. of children they have

Figure

1. Total no. of workers in the factory.

Ans : 200

2. Total no. of children that all the workers that have between them is

Ans : 560

3. The total no. of literate workers is

Ans : 105

4. The ratio of literate & illiterate is

Ans - 1:2

5. The no. of literate workers with atleast 3 children is

Ans : 45

6. The no. of illiterate workers with less than 4 children is

Ans : 60

7. The rate of literate to illiterate workers who have 3 children is

Ans - 3:4

II) Which of the following statement(s) is(are) not true

a. Literate workers have small families than illiterate workers.

b. Families with 2 or less than 2 children are commoner than families with 3 or more children.

c. 2 children families constitute 60% of the families of workers.

d. More the no. of children a worker has the more illiterate he is.

e. None the above statement is true.

Ans : e

III) ---- of a mutual instrument vibrate 6, 8 & 12 intervals respectively. If all three vibrate together what is the time interval before all vibrate together again?

LCM of NR

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Ans : 1/2 sec

HCF of DR

12) Certain no. of men can finish a piece of work in 10 days. If however there were 10 men less it will take 10 days more for the work to be finished. How many men were there originally.

Ans : 110 men

10) In simple interest what sum amounts of Rs.1120/- in 4 years and Rs.1200/- in 5 years.

Ans : Rs.800/-

vi) Sum of money at compound interest amounts of thrice itself in 3 years. In how many years will it take 9 times itself.

Ans : 6

vii) Two trains in the same direction at 50 & 32 kmph respectively. A man in the slower train observes the 15 seconds elapse before the faster train completely passes him.

What is the length of faster train ?

Ans : 75m

16) How many meshes are there in a sq. m of wire gauge. Each mesh being 8mm long X 5mm width

Ans : 25000

17) x% of y is y% of ?

Ans : x

11) The price of sugar increases by 20%, by what % house-wife should reduce the consumption of sugar so that expenditure on sugar can be same as before

Ans : 16.66

? ) A man spending half of his salary for house hold expenses, 1/4th for rent, 1/5th for travel expenses, a man deposits the rest in a bank. If his monthly deposits in the bank amount 50. What is his monthly salary ?

Ans : 1000

? ) The population of a city increases @ 4% p.a. That is an additional annual increase of 4% of the population due to this influx of job seekers, the % increase in population after 2 years is

Ans :

? ) The ratio of no. of boys & girls in a school is 3:2 Out of these % the boys & 25% of girls are scholarship holders. % of students who are not scholarship holders.?

Ans :

? ) 15 Men take 21 days of 8 hrs. each to do a piece of work. How many days of 6 hrs. each would do if 21 women take. If 3 women do as much work of 2 men.

Ans : 30

?) a cylinder ingot 6cms in diameter and 6 cms in height is and spheres all of the same

size are made from the material obtained.what is the diameter of each sphere?

Ans :3cms

5) rectangular plank of  $\sqrt{2}$  meters wide can be placed so that it is

on either side of the diagonal of a square shown below. what is the area of the plank?

Ans :  $7\sqrt{2}$

fig no-

7) the difference b/w the compound interest payable half yearly and the simple interest on a

certain sum lent out at 10% p.a for 1 year is Rs 25 what is the sum

Ans: 10,000

8) what is the smallest no by which 2880 must be divided in order to make it a

perfect square ?

Ans : c

a) 3 b) 4 c) 5 d) 6 e) 8

9) a father is 30 times more than his son however he will be only thrice as old as the son

what is father's present age ?

Ans : 40

10) An article sold at a profit of 20% if both the c.p & s.p were to be Rs. 20/- the profit would be 10% more. What is the c.p of that article?

Ans : 1% loss