

M.B.T:paper pattern only

Section-1. Passage (10 min reading ,5 questions)

Section-2. English (error finding,15 questions)

Section-3. Number series (Letter series also)

Section-4. Analytical ability (5 questions)

Section-5 Numerical ability (additions,multiplications etc)

note: -marking 1:1

Intergraph:paper pattern only

Analytical. 1.seating arrangement

2.Inferences

(Ref. GRE book)

C-language. 48 questions - 45 min.

1. Diff.between inlinefunction((++)-macns(c)

2. 3 to 4 questions on conditional operator :?:

3. Write a macro for sqaring no.

4. Trees -3 noded tree (4 to 5 questions fundamentals)

Maximum possible no.of arrnging these nodes

5. Arrange the nodes in depth first order

breadth first order

6. Linked lists Q) Given two statments

1. Allocating memory dynamiccaly

2. Arrays

Tree the above both and find the mistake

7. Pointers (7 to 8 questions) Schaum series

Pointer to functions. to arravs

4 statements -> meaning, syntax for another 4 statements

8. Booting-def(When you on the system the process that takes place is -----

9. -----Type of global variable can be accessible from any where in the working environment (external global variable)

10. Which of the following can be accessed randomly

Ans. a. one way linked list

b. two way "

c. Arrays

d. Trees

11. Write a class for a cycle purchase(data items req.)

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 buy 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 $\frac{3}{4}$ th

of tank can be filled by B pipe and after wards 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 send to you.

answers he changed slightly see.

From two fig 6 questions regarding the

swimmers, girls, tennis players, tall and

second one on politicians, graduates, parliament members, both questions are same given so mugup and go to exam and place blindly i already

send 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 problems 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.

three new sheets to write

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

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)

mumbai99:--->>>>

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

----- 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

reduces 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, $\frac{1}{4}$ th for rent, $\frac{1}{5}$ th 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