

MindTree Placement Paper

Mindtree came to DA-IICT , Gandhinagar and there were three different papers for three streams (CS, VLSI, DSP)

VLSI paper is attached. There were 16 questions (I have only 15). Finally Mindtree took 55 students from DA-IICT.

1. An expression was given like $B + A . B + !A . B +$ and what will be the final expression o/p :- (Easy)
2. state diagram was given and what state will be detected ?
3. Counter and three states were given(13 , 15 , 14 , 10) what will be the next value ? (ans. 11 – Gray counter)
4. For one circuit inputs are ABCD and output is zero for first eight inputs and 1 for next eight . What will be the expression for circuit ? (ans :- A)
5. What is octal representation of 01010101 ? (ans. 125)
6. D flip-flop with inverted feedback was given and question was based on maximum frequency allowed (setup , hold etc. times were given)
7. Question based on instruction T states and CPI was asked .
8. What happens when HALT instruction is executed? (Enter wait state and waits for interrupt or reset , Enters in to sleep state , etc. (ans. Waits for interrupt or reset)
9. What happens when PUSH instruction is executed : (content of accumulator is saved, content of PC is changed , stack pointer is decremented and value value is saved)
10. Two bulbs of 40 Watt and 60 Watts were added in series . What will happen ? (40 watt will be brighter , 60 watts will be brighter , both will have same brightness , none) (Ans. 40 watt)
11. If widths of all PMOS an NMOS are doubled in any circuit then what will be effect on noise margin ? (ans. No effect)
12. If gate and one end of NMOS are connected to Vdd , what will be the output at second end of NMOS ? ($V_{dd} - V_{th} - NMOS$ are bad 1 `s)
13. a band limited signal is sampled at Nyquist rate , to reconstruct it the output will be given to : (RC filter , Envelope detector , LPF with --)
14. What is expression for Noise figure ?
15. always @ (B or C)

if(B) D=C

Circuit will work as (Mux, Tri state buffer , Latch , None) (Ans. --- Tri state Buffer)

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GD Topics:

1. if both husband and wife are working in the same organisation.
- 2.cordination between educational institutions and companies.
- 3.Linux Vs Microsoft . Which will perish?.

For written test

45 aptitude questions.These Questions take time.

1 programing question. We have to write program(This program will be evaluated if you are qualified for Interview).you will be given choice(ie write one out of two given)

both the programs are on files

1. we have to count the 3 letter,4letter and 5letter words from a file and print the number of 3 letter,4letter and 5letter words. Delimiter is space,tab,hifen.Also we should not consider the line in the file after we encounter # in that line.(ie after # we should not consider the portion of line)

2. in file count the number of charecters,number of words,number of line.Delimiter between words is given as command line argument.

1hour 15 min is given for the test. we have to answer both apptitue and program with in this time.

some of the apptitue questions.

1. the is a meeting organised, every person shake hands with the other only once.if there are 60 shake hands,how many persons are there in the meeting?.

2.A fater has 8 children ,he takes 3 at a time to a zoo.probability of a child going to the zoo.

3. a father has six children .all the children are born at regular intervels.if the sum of their ages of all the children and father is 186. calculate the age of the elder son, when the younger sons age is 3.

4.count the numbers between 100 and 300, that starts with 2 and ends with 2. Ans: 10.

5.some reasoning questions

1. there are six steps,5 people a,b,c,d,e . conditions are , a is two steps below c,no two people are on same step,b is next to d.

4 Questions based on this

2. 5 people participating in the race .conditions are given about the positions.

6.a ball is dropped from a height of 10 feet.Every time it rebounds to half of the height. how many feet it travelled?

7.There are 3 jars. The ratio of spirit to water in each of these jars is 3:2,4:5,5:7. the three jars are mixed into a single jar. What is the ration of spirit to water in single jar.

8. What is the relation with your mothr's sister's brother's wife's child with you.?

9.what is the relation with your mother's husband's father-in-law's son's child with you?

10.we were asked to fill the series, alpabet sreris 4 questions are given.

11. 5 questions are given, we are asked to find the logical connection between them. like all managers are drinkers,all drinker are smokers ,questions like this.

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1) a person losses and gains 10% on selling a object for 200.

ans:he losses

2)sum of 1 to 100 is divisible by

- 1.1,2,4,8
- 2.2 & 4
- 3.2
- 4.none

ans: 2

3)10 consonants and 4 vowels , how many words with 3 consonants and 2 vowels?

- 1) 720 , 2)7200 ...

complete series

4)AZX....

5)ABCEFGIJK.....(ver easy)

6)how many nos start and end with 2 b/w 100 and 300?

7)if a sphere of dia 3 cm is melted & formed into 3 spheres , the diameter of 1st is 1.5cm and that of second is 2.0 cm , what is the diameter of the third??

8)5 logical reasoning like :: All elephants are trained

a few animals are trainedetc -> refer to IMS material for this

9)there are 6 steps from 1st floor to 2nd floor

A is 2 stes below C

B is next to D

ONLY one step is vacant

NO 2 people are on any step

Q!)if a is on the first step , which of the following are true

((very very easy))

10) there are 4 novels like thriller , mystery , romance , fiction written by ,a,b,c,d not necessarily in the same order and published by e , f , g , h, not necessarily in the same order...and questions on this ((very very easy))

11)6 people compete in a race A,b,c,d,e,f b is not in the 1st place there are 2 runners b/w d and e

a is ahead of d (one more condition) and 2 questions --very easy

12)if prizes are increased by 25% , by how much should i reduce the consumption to keep the expenditure same??

13)how many factors (or what nos) divide 6400

- 1)24 , 2) 25 3)

14) "COURTESY" - how many words can be constructed with C in the begining and Y at the end

15) My mother's husband's father in laws son's child->what is the relation?

16)3 glasses containing mixture of water and alco in ratio 2:3 , 3:4 , 5:9 when all 3 are mixed what is the new ratio??

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