

CSC PAPER ON 12th MAY AT GITA, BHUBANESWAR

Hi,friends this is SAROJ ,student of C V Raman College of Engineering,Bhubaneswar. IT branch. Friends this is my 7th attempt(I was almost lost faith),CSC conducted campus selection in MAY 12 th in GITA,BBSR.They are around 500 students are participated in this selection ,they conducted2 written tests one appititude,anothere one is techincal test ,after this for the short listed members, they conducted JUST A MIN,and ESSAY WRITING ,after this 2 rounds they shorted 30 members ,again they conduct techinacal , HR round , in tech mainly they concentrate on DBMS, SO prepare this thoroughly .Finally they selected 37 members, i m one of these members. Thanks god.

Friends don't loose hope and confidence , If u hav good written & technical skill as well as luck then god will help u , friends for technical test the questions which are mentioned in previous papers is more enough, so u must go through once.

every round is an elimination round

I. General Aptitude (round 1)

These are the some qts which I remembered.

1. Sudoku. you need to fill-up the table using the hint(addition of row, column, diagonal =15) and available cell values. its easy. if you figure it out, you can answer(very easy) five questions correctly.

2.If y=MAX((3x+y),(11x-y)) then what's the value of y?

3.1 Que. on book arrangement. if u find out the series you can ans five ques. correctly.

4.2 Ques. on Probability, ages

5. Ages

6. **Venn diagram** --> Out of 100 students, 45 do not know typing, 60 know shorthand. 25 know both 6 do not know anything then find out haw many know both?

7. if f(y,0)=y+1, f(o,x)=x; f(y,x)=f(f(y,0),f(2*y-1)) then find f(1,1),f(2,3),f(3,0); 3 question based on this. Its very very simple...

8. 1 Ques on Percentage : Price of a book increases 15% successively (2times) what is the new price of the book more compared to that of the old price:

a)32.25% b)23.34% c)36% d)39%

- 9. 2 Questions based on Time and speed.
- 10. Passage and questions...

11.question on synonyms and antonyms

II. Technical Aptitude (round 2)

This is a 40 minutes paper containing 75 questions. • There is no negative marking

1.----- is associated with webservices.

a) WSDL b) WML c) web sphere d) web logic

2.any large single block of data stored in a database, such as a picture or sound file, which does not include



record fields, and cannot be directly searched by the database's search engine. a) TABLE b) BLOB c) VIEW d) SCHEME

3. Areserved area of the immediate access memeory used to increase the running speed of the computer program.

a) session memory b) bubble memory c) cache memory d) shared memory

4.a small subnet that sit between atrusted internal network and an untruster external network, such as the public internet.

a) LAN b) MAN c) WAN d) DMZ

printf("%d\n\t", clrscr());

5.technologies that use radio waves to automatically identify people or objects, which is very similar to the barcode identification systems, seen in retail stores everyday. a)BLUETOOTH b) RADAR c)RSA SECURE ID d)RFID

```
6.main(){
float fl = 10.5;
double dbl = 10.5
if(fl ==dbl)
printf("UNITED WE STAND");
else
printf("DIVIDE AND RULE")
}
what is the output?
a) compilation error b)UNITED WE STAND c)DIVIDE AND RULE d)linkage error.
7.main(){
static int ivar = 5;
printf("%d",ivar--);
if(ivar)
main();
}
what is the output?
a)1 2 3 4 5 b) 5 4 3 2 1 c)5 d)compiler error:main cannot be recursive function.
8.main()
{
extern int iExtern;
iExtern = 20;
printf("%d",iExtern);
}
what is the output?
a)2 b) 20 c)compile error d)linker error
9..#define clrscr() 100
main(){
clrscr();
```



```
}
what is the output?
a)100 b)10 c)compiler errord)linkage error
10.main()
{
void vpointer;
char cHar = 'g', *cHarpointer = "GOOGLE";
int j = 40;
vpointer = &cHar;
printf("%c",*(char*)vpointer);
vpointer = &j;
printf("%d",*(int *)vpointer);
vpointer = cHarpointer;
printf("%s",(char*)vpointer +3);
}
what is the output?
a)g40GLE b)g40GOOGLE c)g0GLE d)g4GOO
11.#define FALSE -1
#define TRUE 1
#define NULL 0
main() {
if (NULL)
puts ("NULL");
else if(FALSE)
puts ("TRUE");
else
puts ("FALSE");
}
what is the output?
a) NULL b) TRUE c) FALSE d)0
12.main() {
int i =5,j= 6, z;
printf("%d",i+++j);
}
what is the output?
a)13 b)12 c)11 d) compiler error
13.main() {
int i ;
i = accumulator();
printf("%d",i);
}
accumulator(){
_AX =1000;
}
```



```
what is output?
a)1 b)10 c)100 d)1000
14.main() {
int i =0;
while(+(+i--)!= 0)
i- = i++;
printf("%d",i);
}
what is the output?
a)-1 b)0 c)1 d)will go in an infinite loop
15.main(){
int i = 3;
for(; i++=0;)
printf(("%d",i);
}
what is the output?
a)1b)2c)1 2 3d)compiler error:L value required.
16.main(){
int i = 10, j =20;
j = i ,j?(i,j)?i :j:j;
printf("%d%d",i,j);
}what is the output?
a)20 b)20 c)10 d)10
17.main(){
extern i;
printf("%d\t",i);{
int i =20;
printf("%d\t",i);
}
}
what is output?
a) "Extern valueof i " 20 b) Externvalue of i"c) 20d) linker Error: unresolved external symbol i
18.int DIMension(int array[]){
return sizeof(array/sizeof(int);}
main(){
int arr[10];
printf("Array dimension is %d",DIMension(arr));
}
what is output?
a)array dimension is 10 b)array dimension is 1
c) array dimension is 2 d)array dimension is 5
```



```
19.main()
{
void swap();
int x = 45, y = 15;
swap(&x,&y);
printf("x = \%d y = \%d''x,y);
}
void swap(int *a, int *b){
*a^=*b, *b^=*a, *a^ = *b;
what is the output?
a) x = 15, y =45 b)x =15, y =15 c)x =45 ,y =15 d)x =45 y = 45
20.main(){
int i =257;
int *iptr =&i;
printf ("%d%d",*((char*)iptr),* ((char *)iptr+1));
}
what is output?
a)1, 257 b)257 1c)0 0d)1 1
21.main(){
int i =300;
char *ptr = &i;
*++ptr=2;
printf("%d",i);
}
what is output?
a)556 b)300 c)2 d)302
22. #include
main(){
char *str ="yahoo";
char *ptr =str;
char least =127;
while(*ptr++)
least = (*ptr
printf ("%d",least);
}
what is the output?
a)0 b)127 c) yahoo d) y
```

23.Declare an array of M pointers to functions returing pointers to functions returing pointers to characters.
a)(*ptr[M]()(char*(*)()); b)(char*(*)())(*ptr[M])()
c) (char*(*)(*ptr[M]())(*ptr[M] () d)(char*(*)(char*()))(*ptr[M]) ();

24.void main(){ int I =10, j=2; int *ip = &I ,*jp =&j;



```
int k = *ip/*jp;
printf("%d",k);
}
what is the output?
a)2 b)5 c)10 d)compile error:unexpected end of file in comment started in line 4
```

25.main()

{ char a[4] ="GOOGLE"; printf("%s",a);

```
}
```

what is the output? a)2 b) GOOGLE c) compile error: yoo mant initializers d) linkage error.

26.For 1MB memory, the number of address lines required a)12 b)16 c)20 d)32

27. There is a circuit using 3 nand gates with 2 inputes and 1 output, f ind the output. a) AND b) OR c) XOR d) NAND

28.what is done for push operation

a) SP is incremented and then the value is stored.

- b) PC is incremented and then the value is stored.
- c) PC is decremented and then the value is stored.
- d) SP is decremented and then the value is stored.

29.Memory allocation of variables declared in a program is -----

a) Allocated in RAM

b) Allocated in ROM

c) Allocated in stack

d) Assigned in registers.

30.What action is taken when the processer under execution is interrupted by TRAP in 8085MPU? a) Processor serves the interrupt request after completing the execution of the current instruction.

b) processor serves the interrupt request after completing the execution of the completing the current task.

c) processor serves the interrupt immediately.

d) processor serving the interrupt request depent deprnds upon the priority of the current task under execution.

31.purpose of PC (program counter)in a microprocessor is ----

a) To store address of TOS(top of stack)

b) To store address of next instructions to be executed

c) count the number of instructions

d) to store the base address of the stack.

32.conditional results after execution of an instruction in a microprocess is stored in

a) register b) accumulator c) flag register d) flag register part of PSW (program status word)

33. The OR gate can be converted to the NAND function by adding----gate(s) to the input of the OR gate.



a) NOT b) AND c) NOR d) XOR

34.In 8051microcontroller ,-----has a dual function. a) port 3 b) port 2 c) port 1 d) port 0

35.An 8085 based microprocessor with 2MHz clock frequency,will execute the following chunk of code with how much delay? MVI B,38H HAPPY: MVI C, FFH SADDY: DCR C JNZ SADDY DCR B JNC HAPPY a) 102.3 b)114.5 c)100.5 d)120

36.In 8085 MPU what will be the status of the flag after the execution of the following chunk of code. MVI B,FFH MOV A,B CMA HLT a)S = 1, Z = 0, CY = 1 b)S = 0, Z = 1, CY = 0 c) S = 1, Z = 0, CY = 0 d)S = 1, Z = 1, CY = 1

37.A positive going pulse which is always generated when 8085 MPU begins the machine cycle. a) RD b) ALE c) WR d) HOLD

38.when a ----- instruction of 8085 MPU is fetched , its second and third bytes are placed in the W and Z registers.a) JMP b) STA c) CALL d) XCHG

39.what is defined as one subdivision of the operation performed in one clock period. a) T- State b) Instruction Cycle c) Machine Cycle d) All of the above

40.At the end of the following code, what is the status of the flags. LXI B, AEC4H MOV A,C ADD B HLT a) S = 1, CY = 0, P = 0, AC = 1 b) S = 0, CY = 1, P = 0, AC = 1 c) S = 0, CY = 1, P = 0, AC = 1 d) S = 0, CY = 1, P = 1 , AC = 1

46.The repeated execution of a loop of code while waiting for an event to occur is called ------.The cpu is not engaged in any real productive activity during this period, and the process doesn't progress towards completion.

a) dead lock b) busy waiting c) trap door d) none.

47. Transparent DBMS is defined as

a) A DBMS in which there are no program or user access languages. b) A DBMS which has no cross file capabilities but is user friendly and provides user interface management. c) A DBMS which keeps its physical



structure hidden from user d) none.

48.Either all actions are carried out or none are.users should not have to worry about the effect of incomplete transctions.DBMS ensures this by undoing the actions of incomplete transctions.this property is known as a) Aggregation b) atomicity c) association d) data integrity.

49.----- algorithms determines where in available to load a program. common methods are first fit,next fit,best fit.----- algorithm are used when memory is full , and one process (or part of a process) needs to be swaped out to accommodate a new program. The ------ algorithm determines which are the partions to be swaped out.

a) placement, placement, replacement

b) replacement, placement, placement

- c) replacement, placement, replacement
- d) placement, replacement, replacement

50.Trap door is a secret undocumented entry point into a program used to grant access without normal methods of access authentication. A trap is a software interrupt, usually the result of an error condition. a)true b)false.

55.in recursive implementations which of the following is true for saving the state of the steps

a) as full state on the stack

- b) as reversible action on the stack
- c) both a and b
- d) none

56.which of the following involves context switch

- a) previliged instruction
- b) floating point exception
- c) system calls
- d) all
- e) none

57.piggy backing is a technique for

- a) acknowledge
- b) sequence
- c) flow control
- d) retransmission

58. a functional dependency XY is ______dependency if removal of any attribute A from X means that the dependency does not hold any more

- a) full functional
- b) multi valued
- c) single valued
- d) none

59)a relation schema R is in BCNF if it is in _____and satisfies an additional constraints that for every functional dependency XY,X must be a candidate key a)1 NF



b)2 NF c)3 NF d)5 NF

60) a ______sub query can be easily identified if it contains any references to the parent sub query columns in the ______ clause

A) correlated ,WHERE

b) nested ,SELECT

c) correlated, SELECT

d) none

31.purpose of PC (program counter)in a microprocessor is ----

a) To store address of TOS(top of stack)

b) To store address of next instructions to be executed

c) count the number of instructions

d) to store the base address of the stack.

32.conditional results after execution of an instruction in a microprocess is stored ina) register b) accumulator c) flag register d) flag register part of PSW (program status word)33.The OR gate can be converted to the NAND function by adding----gate(s)to the input of the OR gate.a) NOT b) AND c) NOR d) XOR

34.In 8051microcontroller ,-----has a dual function. a) port 3 b) port 2 c) port 1 d) port 0

35.An 8085 based microprocessor with 2MHz clock frequency,will execute the following chunk of code with how much delay? MVI B,38H HAPPY: MVI C, FFH SADDY: DCR C JNZ SADDY DCR B JNC HAPPY a) 102.3 b)114.5 c)100.5 d)120

36.In 8085 MPU what will be the status of the flag after the execution of the following chunk of code.

MVI B,FFH MOV A,B CMA HLT a)S = 1, Z = 0, CY = 1 b)S = 0, Z = 1, CY = 0 c) S = 1, Z = 0, CY = 0 d)S = 1, Z = 1, CY = 1

37.A positive going pulse which is always generated when 8085 MPU begins the machine cycle. a) RD b) ALE c) WR d) HOLD

38.when a ----- instruction of 8085 MPU is fetched , its second and third bytes are placed in the W and Z registers.



a) JMP b) STA c) CALL d) XCHG

39.what is defined as one subdivision of the operation performed in one clock period. a) T- State b) Instruction Cycle c) Machine Cycle d) All of the above

40.At the end of the following code, what is the status of the flags. LXI B, AEC4H MOV A,C ADD B HLT a) S = 1, CY = 0, P = 0, AC = 1 b) S = 0, CY = 1, P = 0, AC = 1c) S = 0, CY = 1, P = 0, AC = 1 d) S = 0, CY = 1, P = 1, AC = 1

46.The repeated execution of a loop of code while waiting for an event to occur is called ------.The cpu is not engaged in any real productive activity during this period, and the process doesn't progress towards completion. a) dead lock b) busy waiting c) trap door d) none.

47. Transparent DBMS is defined as

a) A DBMS in which there are no program or user access languages. b) A DBMS which has no cross file capabilities but is user friendly and provides user interface management. c) A DBMS which keeps its physical structure hidden from user d) none.

48.Either all actions are carried out or none are.users should not have to worry about the effect of incomplete transctions.DBMS ensures this by undoing the actions of incomplete transctions.this property is known as a) Aggregation b) atomicity c) association d) data integrity.

49.----- algorithms determines where in available to load a program. common methods are first fit,next fit,best fit.----- algorithm are used when memory is full , and one process (or part of a process) needs to be swaped out to accommodate a new program. The ------ algorithm determines which are the partions to be swaped out.

a) placement, placement, replacement

b) replacement, placement, placement

c) replacement, placement, replacement

d) placement, replacement, replacement

50.Trap door is a secret undocumented entry point into a program used to grant access without normal methods of access authentication. A trap is a software interrupt, usually the result of an error condition. a)true b)false.

52.which one of the following is the recursive travel technique. a)depth first search b)preorder c)breadth first search d)none.

55.in recursive implementations which of the following is true for saving the state of the steps a)as full state on the stackb) as reversible action on the stackc)both a and bd)none



56.which of the following involves context switch

- a) previliged instruction
- b) floating point exception
- c) system calls
- d)all
- e) none

57.piggy backing is a technique for a) acknowledge

- b) sequence
- c) flow controld) retransmission

58. a functional dependency XY is _______dependency if removal of any attribute A from X means that the dependency does not hold any more

- a) full functional
- b) multi valued
- c) single valued
- d) none

59)a relation schema R is in BCNF if it is in ______and satisfies an additional constraints that for every functional dependency XY,X must be a candidate key

- a)1 NF
- b)2 NF
- c)3 NF
- d)5 NF

60) a ______sub query can be easily identified if it contains any references to the parent sub query columns in the ______clause

- A) correlated ,WHERE
- b) nested ,SELECT
- c) correlated,SELECT
- d) none

61) hybrid devise that combines the features of both bridge and router is known as a)router b)bridge c)hub d)brouter

62) which of the following is the most crucial phase of SDLC

a) testing b) code generation c) analysys and design d) implementation

63)to send a data packet using datagram ,connection will be established

a) no connection is required

- b) connection is not established before data transmission
- c) before data transmission

d) none

64) a software that allows a personal computer to pretend as as computer terminal is



- a) terminal adapter
- b) terminal emulation
- c) modem
- d) none

65) super key is a) same as primary key

- b) primary key and attribute
- c) same as foreign key

d) foreign key and attribute

66.In binary search tree which traversal is used for ascending order values a) Inorder b)preorder c)post order d)none

67.You are creating an index on ROLLNO colume in the STUDENT table.which statement will you use?

- a) CREATE INDEX roll_idx ON student, rollno;
- b) CREATE INDEX roll_idx FOR student, rollno;
- c) CREATE INDEX roll_idx ON student(rollno);
- d) CREATE INDEX roll_idx INDEX ON student (rollno);

68.A_____class is a class that represents a data structure that stores a number of data objects a. container b.component c.base d.derived

69.Which one of the following phases belongs to the compiler Back-end. a. Lexical Analysis b.Syntax Analysis c. Optimization d.Intermediate Representation.

70.Every context _sensitive language is context_free a. true b.false

71.Input:A is non-empty list of numbers L Xß-infinity For each item in the list L,do If the item>x,then Xßthe item Return X X represents:a)largest number b)smallest number c)smallest negative number d) none

72.Let A and B be nodes of a heap, such that B is a child of A. the heap must then satisfy the following conditions

a) key(A)>=key(B) b) key(A) c) key(A)=key(B) d) none



73.String ,List, Stack, queue are examples of ______
a) primitive data type
b) simple data type
c) Abstract data type
d) none

74.which of the following is not true for Linked Lists?

a) The simplest kind of linked list is a single linked list , which has one link per node .this link points to the next node in the list, or to a null value or empty list if it is the last node.

b)a more sophisticated kind of linked list is a double linked list or two way linked list .Each node has two links ,one to the previous node and one to the next node.

c) in a circle Linked List ,the first and last nodes are linked together. this can be done only for double linked list.d) to traverse a circular linked list ,u begin at any node and follow the list in either direction until u return to the original node.

75.sentinel node at the beginning and /or at the end of the linked list is not used to store the data

a) true

b) false

Friends for technical test these questions are enough, but aptitude test some what tough, for this u must go through RS AGRWAL, this is enough to qualify these 2 tests

ROUND III. Communication Round: (Maximun elimination)

It was a one to one interaction with the panel where they check ur fluency, and grammar n pronunciation. Be very sure that u don't stop while speaking. Just keep on speaking without stammering until the panel personnel asks u to stop The communication round mainly includes introduce yourself and some question that he may ask of his choice.

ROUND IV. (Technical Interview)

Question from each and every technical aspects will be asked like

Questions on Pointers, OOPS concepts, Deff b/w DBMS and RDBMS, Projects you have done (UG&PG),OS (UNIX,WIN),etc..sql,java,data structure even question from the techincal written round will be asked 2 explain so dont just remember the answer of written round try to understand the reason of answer.

But something new happened at my stage. When my name came up I got in and asked for permission.then he offered me a seat.and asked to tell something abt myself.then he asked

1.how do u rate urself in c & c++. I said in c its 7 and in c++ its 8.

2.why there is a difference?i replied that though I know all concepts of c, but rightnow I have not much idea abt linked list, stack, tree.

3.well if I will say u to implement linked list using c++,can u do it? I replied yes sir.this is possible.but as I said I am unable to do it right now.

4.what is early binding & late binding? I explained with examples.

5.what is virtual?explain with example?I explained .



6.can u define a class in real life? I explained with 3 examples.

7.wap to insert & retrieve data into a 3d matrix?i did.

8.He said well u r good .ok foget abt this technical aspect.Can I ask u qts from any other aspects.i said sure sir.it will b my pleasure.

9.then he asked.There r 9 balls having equal volume, equal color.But one of them is slightly heavier than the rest.now u tell me the shortest way to find out the heavier one?..I replied there r 5 ways.He behaved like surprised n said I asked the same qt to some people and got answers in 2 ways.Ok u name the five ways.i did based on Archmedis principle, law of physics .but he was not satisfied and asked me what is the shortest way.I replied sir I need time to answer.He said ok. Then he kept on asking qts n I was answering.During my leave, He asked what is d shortest way.I said I wll definitely t ell u sir wheather I will b selected or not.

10.well saroj it was a nice conversation with u.good luck.i said thank u sir.

ROUND V (HR Interview)

Hr is just a formailty if ur technical round has gone very well.

1. Tell me about yourself in brief???

2. What r ur hobbies/?i answered body building.then he asked abt the gym n exercise

3.have u heard abt CSC before??

4.R u ready to work anywhere inside/outside india?? i gave a big "Yes sir"

5.do u know that if u leave the company b4 2 yr, u will hav to pay a sum of 1 lakh. I replied I am not going to leave this company for sure.

6.i had an accident recently. He asked what happened. Then I ex58'?plained that.

7.Do u have any qts ? yes sir.I want to know on what platform we will b working. He said don't worry.it depends on the project & we will let u know.

It was nice talking to u saroj & wait for d result. I replied sure sir.