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Birlasoft's services include application development, support & maintenance, enterprise application implementation, integration, infrastructure management and quality assurance & testing.

Birlasoft's robust delivery processes embrace digitized project management methodologies, embedded within proven practices of Six Sigma and SEI CMMi Level 5 on Continuous Representation. The Noida centers of the company have been assessed at PCMM Level 3 for its HR practices.

Headquartered in Noida (National Capital Region), India, Birlasoft has about 4000 employees across US, UK, Germany, Netherlands, Czech Republic, Malaysia, Australia, Singapore and India.

Birlasoft is part of the global \$1.7-billion CK Birla Group which traces its roots back to over 150 years and has diversified interests ranging from automobiles, cement, paper, software etc. to hospitals, schools and colleges as part of its philanthropic work.

Founded: 1995

Headquarters

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23 June 2010 Paper

1 With every use of memory allocation function should be used to release allocated memory which is no longer needed?

- a) dropmem()
- b) dealloc()
- c) release()
- d) free()

2 Which one of the following statements allocates enough space to hold an array of 10 integers that are initialized to 0 ?

- a) `int *ptr = (int *) calloc(10,sizeof(int));`
- b) `int *ptr = (int *) alloc(10*sizeof(int));`
- c) `int *ptr = (int *) malloc(10*sizeof(int));`
- d) `int *ptr = (int *)calloc(10*sizeof(in...`

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- d) `int *ptr = (int *)calloc(10*sizeof(in...`

4 Which one of the following represents a correct and safe declaration of NULL ?

- a) `typedef((void *)0) NULL;`
- b) `typedef NULL(char *)0;`
- c) `#define NULL((void *)0)`
- d) `#define NULL((char*)0)`

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6 Which of the following statements is true when a derivation inherits both a virtual and non-virtual instance of a base class ?

- a) Each derived class object has base objects only from the non virtual instance
- b) Each base class object has derived objects only from the non-virtual instance
- c) Each derived...

7 Which of the following best explains life cycle of Defect ?

- a) Defect Found -> Defect Logged -> Defect Debugged -> Defect Closed -> Defect Rechecked
- b) Defect Found -> Defect Debugged -> Defect Reported -> Defect Rechecked ...

8 Which is not the characteristic of a view ?

- a) Consumes Disk space for data
- b) Multiple tables
- c) Multiple rows
- d) Updateable

9 Which group does Winrunner, Load Runner, SQA Suite fall under ?

- a) Databases
- b) Automated Test Tools
- c) Operating Systems
- d) Rapid Application Development Tool

10 What relationship is resolved by an "intersecting" or "associative" entity ?

- a) Recursive
- b) Mandatory one to one
- c) Many to Many
- d) One to One

11 What is the largest value an integer can hold in a Standard C compiler ?

- a) 32767
- b) 65536
- c) 2147483647
- d) INT_MAX

12 What function will read a specified number of elements from a file ?

- a) fread()
- b) readfile()
- c) fileread()
- d) gets()

13 RDBMS triggers are typically bound to a _____ and one or more _____

- a) Table, SQL statement types
- b) SQL statement type, user
- c) Column, rows
- d) User, tables

14 process id of kernel

- (a) 1
- (b) 0
- (c) 2
- (d) none

15 Modern RDBMS perform the following the following function except _____.

- a) Force column values in one table to match any of the values in a column of another table
- b) Automatically replicate data on another server
- c) Automatically create new indexes base...

16 Make a copy of file "upper" in the directory two levels up .

- a) jump -2 upper
- b) cp upper ../..
- c) cp upper -2/
- d) None of the above

17 kernel executes the first process when system starts

ans :- init();

18) int a=1;

int ab=4;

int main()

{

int b=3,a=2;

printf("%i*%i*%i*/i",a,b,ab);

}What will be the output?

```
19) i = 0;
j = 0;
for(j=1;j<10;j++)
i=i+1;
```

In the (generic) code segment above what will be the value of the variable i at completion ?

- a) 0
- b) 1
- c) 3
- d) 9

```
20) class Word
{
public:
Word(const char*, int = 0);
};
```

Referring to the sample code above what is the minimum number of arguments required to call the constructor ...

- a) 0
- b) 1
- c) 2
- d) 3

```
21) class professor{}
class teacher: public virtual professor{};
class researcher: public virtual professor {}
class myprofessor :public teacher, public researcher {};
```

Ref...

- a) 0
- b) 1
- c) 2
- d) 3

22) What is the function of the modulus operator in most languages ?

- a) Sets a system environmental value to either base 10, base 8 or base 16
- b) Returns the remainder after dividing one number by another
- c) Returns the first argument raised to the se...

23) #include

Referring to the sample code above ,which of the following could you use to make the standards I/O Stream classes accessible without requiring the scope ...

- a) using namespace std::iostream
- b) using namespace std;
- c) using namespace iostream ;
- d) using iostream;

May 2010 Paper

There are two sections

1. Technical questions -20
2. Aptitude questions -25

Technical

1. Largest integer can be written from 8 bits is

- a. 256
- b. 255
- c. 8
- d. 10

2. change a hexadecimal no to octal

3. how many address lines needed to pass 1MB of data.

4. What is the function of the modulus operator in most language.

- a) Sets a system environmental value to either base 10, base 8 or base 16
- b) Returns the remainder after dividing one number by another
- c) Returns the first argument raised to the second argument power
- d) Prints out the actual code written to standard output rather than executing the code

5. class professor{}

```
class teacher: public virtual professor{};
```

```
class researcher: public virtual professor {}
```

```
class myprofessor :public teacher,public researcher {};
```

Referring to the sample code above ,if an object of class myprofessor were created ,how many instances of professor will it contain?

- a) 0
- b) 1
- c) 2
- d) 3

6. Modern RDBMS s perform the following the following functionc except _____.

- a) Force column values in one table to match any of the values in a column of another table
- b) Automatically replicate data on another server
- c) Automatically create new indexes based on query history
- d) Prevent unauthorized users from accessing data at the firms level

7. RDBMS triggers are typically bound to a _____ and one ormore

- a) Table,SQL statement types
- b) SQL statement type,user
- c) Column,rows
- d) User, table

8. What relationship is resolved by an intersecting or associative entity?

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- b) Mandatory one to one
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- d) One to One

9. Make a copy of file upper in the directory two levels up .

- a) jump -2 upper
- b) cp upper ../..(answer)

- c) cp upper -2/
- d) None of the above

```
10.  i = 0;
     j = 0;
     for(j=1;j<10;j++)
     i=i+1;
```

In the (generic) code segment above what will be the value of the variable i at completion ?

- a) 0
- b) 1
- c) 3
- d) 9
- e) 10

11. Which of the following statements is true when a derivation inherits both a virtual and non-virtual instance of a base class ?

- a) Each derived class object has base objects only from the non virtual instance
- b) Each base class object has derived objects only from the non-virtual instance
- c) Each derived class object has base objects only from the virtual instance
- d) Each derived class object has a base object from the virtual instance and a base object from non-virtual instance.

12. class Word

```
{
public:
Word(const char*,int = 0);
```

};

Referring to the sample code above what is the minimum number of arguments required to call the constructor ?

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13.What is the function of the modulus operator in most languages ?

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14.lass professor{}

class teacher: public virtual professor{};

class researcher: public virtual professor {}

class myprofessor :public teacher,public researcher {};

15.Referring to the sample code above ,if an object of class

“myprofessor” were created ,how many instances of professor will it contain?

- a) 0
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- c) 2
- d) 3

16.Modern RDBMS's perform the following the following functionc except

- a).Force column values in one table to match any of the values in a column of another table

- b).Automatically replicate data on another server
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Aptitude Section.

1. Question like A is engg. B is doctor C is artist etc then few condition related to them you have give answer to 4 or 5 qs on these conditions .
2. same as above with different data and conditions.
3. qs on finding error in english sentences
4. If father is three times as old as son . 5 years ago he was 4 times age of his son what is son age.
5. Same as above but now daughter and mother joined in and age in question is that of daughter.
6. A figure is given find no of triangles in this figure
7. Same as above but figure is different and find no of squares and triangles.

January 2011 Paper

There are mainly 3 sections for the selection procedure:

1. Written Test (consisting of 5 different papers-analytical, LR, Quantitative, O/p Type Questions, S/w Engg.)
2. GD/Extempore
3. PI (HR+Tech)

The written test was divided into 5 different types as I had discussed above. The examiner will provide you the question paper one after the another according to the time mention in that. Out of huge Number of students, I had written huge because there was a joint campus and the students from 10 different colleges were there for the test. And out of that huge number only 150 were shortlisted. And By GOD's Grace I was among them.

Then the next day GD and PI was to be conducted.

GD was conducted in groups of 10-12 students and mine was the second last group.

When I entered the room for GD, I had observed a very different kind of atmosphere. The sir was there to conduct our GD and was nice enough. He gave us the topic " slumdog type of movies should be there or not?"

Another topics that were conducted earlier were Black, IPL, CWG etc.

Remember where you are against or for the topic. Just be with it never be diplomat.

Side-by-side the results were announced. And the selected students were given a performa to be filled. Again Remember fill the performa very carefully, and always write the truth over there.

By 10:30 pm, I entered the room for my Interview.

Me: May I come in sir
Sir: Yes, have a seat.

Me: Thank you sir. Good evening sir.

Sir: Ok, Sukhman give me your resume and performa.

Sir: O, so you are from Amritsar?

Me: Yes Sir.

Sir: You reached here today only?

Me: Yes Sir

Sir: So you have to go back also?

Me: Yes sir.

Sir: Oh, so how will you go back at late night?

Me: Sir actually my mother and all my friends are there with me.

Sir: Ok Thats Great!

Sir: Ok sukhman, introduce yourself.

Me: Introduced.

Sir: Why only Birlasoft?

Me: Gave reasons.

Sir: If I will give you the job, are you ready to relocate anywhere in India?

Me: Replied

Sir: So, what was your project?

Me: Replied

Sir: What was your role in that?

Me: Replied.

Sir: Ok, tell me what is ADO.Net?

Me: Replied

Sir: Why you used SQL-Server in your project and what's its use?

Me: Replied.

Sir: Concepts of C++

Me: Started with objects then class and when I started polymorphism, he said

Sir: Just give me the example of polymorphism

Me: Replied.

Sir: In how many companies you had tried earlier.

Me: Replied

Sir: Ok good, hard work is the key the success.

Me: Yes sir.

Sir: Ok Sukhman. Thank you and let the next one to come in.

Me: Ok sir, thank you sir.

February 2010 Paper

1. Which of the following best explains life cycle of Defect ?

a) Defect Found -> Defect Logged -> Defect Debugged -> Defect Closed
-> Defect Rechecked

b) Defect Found -> Defect Debugged -> Defect Reported -> Defect
Rechecked -> DefectClosed

c) Defect Debugged -> Defect Found -> Defect Closed -> Defect
Reported -> DefectRechecked

d) Defect Found -> Defect Logged -> Defect Debugged -> Defect
Rechecked -> Defect Closed

2. Which group does Winrunner ,Load Runner ,SQA Suite fall under ?

a) Databases

b) Automated Test Tools

c) Operating Systems

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3. `i = 0;`

`j = 0;`

`for(j=1;j<10;j++)`

`i=i+1;`

In the (generic) code segment above what will be the value of the variable i at completion ?

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c) int *ptr = (int *) malloc(10*sizeof(int));

d) int *ptr = (int *)calloc(10*sizeof(int));

9.What function will read a specified number of elements from a file ?

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`int ab=4;`

`int main()`

`{`

`int b=3,a=2;`

`printf("%i*%i*%i*/i",a,b,ab); }`

13. kernel execute the first process when system is start---

ans :- `init();`

14. process id of kernel

(a) 1

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After written ,group discussion and interview will be there

Topics for group discussion:

1. Is IT sector made a difference to rural India.
2. Does the world need army?
3. are there stars in the sky?
4. capital punishment should be avoided .
5. Is India really shining ?

July 2007 Paper

There were 50 question in 50 min

25-Technical (specialy java,dbms,unix)

15-Apptitude very simple

10-English 3-4(idoms phrases),3 antonyms 2-synonyms

1) Technical-

1: Convert the given decimal no to octal no

2: Convert the given decimal no to hexadecimal

3: Convert the given octal no to hexadecimal

4: Difference b/w ASCII and EBSDIC code

5: Defination of data abstraction

6: Defination of encapsulation

7: In java 2.3 + "5.2" is equivalent to

Ans is "7.5"

8: In java range of char

9: If 2 table contais 70 and 50 rows then there join will contain hw many rows

Ans 3500

10:One question of jdbc connectivity

11:Charactristic of view

12:Kernal id of unix

13:3-4 question from software engg (easy)

Aptitude

1: If circumfrace of a circle is 44 then area is?

2: If the avg of 3 boy age is 15 and ratio of age is 3:5:7 then age of youngest boy is?

3: A core contain 12% zink for 70kg zink hw many core require?

4: Salary is 50% decrease and then 50% increase total loss/profit

5: A book was bought at 20%discount on original price and sold 40% profit of bought price total profit n loss?

6: Direction related question?

7:Avg of 15 inning were 30 after makin 80 runs increase by 1.5 new avg is?

8:A boy can finish aa work in 12 days and a man in 9 days if efficiancy of man is 2 times of boy then man will complete in hw many days?

English

- 1: Chicken hearted means?
- 2: A close saved means?
- 3: If winter comes then sprinn will not turn over means?
- 4: Autonomy antonym is depend

Question of correctin of sentence?

GD

After that GD round was there

Some GD topic are-

- 1: Internet(it was mine)
- 2: Is marridge is buisness now
- 3: Future of IT industry
- 4: Who will be gud president Pratibha or Shekhavat

Birla Sample Question Paper

1.What is the function of the modulus operator in most languages ?

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- 8.Make a copy of file "upper" in the directory two levels up .
- a).jump -2 upper
 - b).cp upper ../..
 - c).cp upper -2/
 - d).None of the above

GD Topic

- 1- indian cricket team is consistent or not;
- 2- IT should be necessary in rural area or not;
- 3- sourav ganguli should be captain or not;
- 4- advantage & disadvantages of Outsourcing;
- 5- india & pakistan matches are passion (josh) or not;

January 2008 Paper

BirlaSoft has conducted recruitment process in our collage. The criteria was first 30% topper in the class. So around 40 student has attended the test & only 4 could clear the test.

Test consist of 15 question based on c,c++,and data structure.and two c programs. So i am listing some of the question as i remembered.

Q1).What is the value of i after execution of the following program.

```
void main()
{
long l=1024;
int i=1;
while(l>=1)
{ l=l/2;
i=i+1;
}
}
```

a)8 b)11 c)10 d)100

ans:b

Q2). This question is based on the complexity ...

Q3)

s->AB

A->a

B->bbA

Which one is false for above grammar..

Q4)Some Tree were given & the question is to fine preorder traversal.

Q5)One c++ program, to find output of the program..

Q6)If the mean falilure hour is 10,000 and 20 is the mean repair hour. If the printer is used by 100 customer, then find the availability.

1)80% 2)90% 3)98% 4)99.8% 5)100%

Q7)One question on probability...

Q8)In a singly linked list if there is a pointer S on the first element and pointer L is on the last element. Then which operation will take more time based on the length of the list.

- 1) Adding element at the first.
- 2) adding element at the end of the list.
- 3) To exchange the first 2 element.
- 4) Deleting the element from the end of the list.

ans:2 check it!

3 more question to fine the output of the program. and rest of the question was based on data structure, some condition where given and we have to conclude either y or n
The second section was coding...

1) Write a function to multiply 2 $N \times N$ matrix
Write test cases for your code.

2) S contains the set of positive integer. Find the largest number c such that $c = a + b$ where a, b, c are distinct number of the set