

BirlaSoft Sample Paper

Jobs-Junction.com

Company : BirlaSoft
Date :
College :

Paper consist of 45 questions (multiple choice) to be
done in 30 mins
there were two sections

- 1.technical qs -20
- 2.apptitude qs -25

Question :

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

- Answer : 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

Question : 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?

Answer :

a) 0

b) 1

c) 2

d) 3

- Since it is a virtual class So the object will contain only one instance of class Professor.
So answer is (b)

Question : Modern RDBMS perform the following function except _____.

Answer :

- 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 first level

Question : Which is not the characteristic of a view ?

Answer :

a) Consumes Disk space for data

b) Multiple tables

c) Multiple rows

d) Updateable

*Though it is the right answer but the view definition does take up space in the disk .Though for few views it is less but for hundreds of stored views it does consume space

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

Answer :

a) Table, SQL statement types

b) SQL statement type, user

c) Column, rows

d) User, tables

Question : What relationship is resolved by an “intersecting” or “associative” entity ?

Answer :

a) Recursive

b) Mandatory one to one

c) Many to Many

d) One to One

Question : Make a copy of file “upper” in the directory two levels up .

Answer :

a) jump -2 upper

b) cp upper ../../

c) cp upper -2/

d) None of the above

Question : Which of the following best explains life cycle of Defect ?

Answer :

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

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

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

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

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

Answer :

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

Question :

```
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 ?

Answer :

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

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

Answer :

- 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.

Question : 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 ?

Answer :

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

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

Answer :

- 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(int));`

*a is the correct ans Calloc allocates space and initialized them to 0

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

Answer :

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

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

Answer :

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

Question: Largest integer can be written from 8 bits is

Answers:

- a. 256
- b. 255**

- c. 8
- d. 10

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

Answer :

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

Question :

```
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? → Answer :-

2*3*3*1

(or)

2*3*//i

[According to compiler it varies]

Question : kernel executes the first process when system starts

Answer : ans :- init();

How many address lines needed to pass 1MB of data

Answer : ans :-20

Question : process id of kernel

Answer :

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

Question :

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

Answer :

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

***** Aptitude section *****

Directions: Each question or set of questions is based on a preceding passage or set of conditions. Choose the best answer for each question. It may be helpful in some instances to sketch a simple diagram

Questions 1-6:

In an International organization of nine nations (O,P,Q,R,S,T,U,V,W) provide staff for the three technical agencies designated B,C and D. Each nation provides one technician who must work in only one of the agencies .

Agency D may not have a member from U,V or W

Agency C may not have a member from R,S or T

Agency B may not have a member from O,P or Q

Agency D may have no members

Agency B must have exactly one or more member than Agency C

1. If U and O are only members of agency C, how many of the nine technician members must work in Agency D ?

A) 3 B) 4 C) 5 D) 6 E) 7

2. In Agency D, the greatest number from the nine nations who can serve together is :

A) 9 B) 8 C) 7 D) 6 E) 5

3. Which nations provide staff for Agency B if W is the only one of the nine providing a member for Agency C?

A) R&V B) S&T C) S&U D) T&V E) U&V

4. If none of the nine nations are represented in Agency D ,which nation must be represented in Agency B?

A) O B) P C) R D) U E) V

5. If Agency C has members from only U,V, and Q ,the members of Agency D could be :

A) O&P B) O&R C) P&S D) P&T E) Q&S

6. Agency D could be made up from which of the following nations

A) P&U B) Q&T C) P,Q and R D) R,S and T E) O,Q,T and W

Questions 7-9

A tire maker codes tires with four symbols using numbers 1 through 4 and the letters A through D.Each code has two numbers and two letters .The two numbers must be next to each other and the two letters must be next to each other .The two letters must be different .The numbers on the right must be more then one on the left .

7. If the fourth symbol is 3 ,what could be the third symbol be ?

A) A B) B C) C D) 1 E) 4

8. If the letter A occurs ,what must be also true ?

A) B also occurs B) C also occurs C) D also occurs D) A occurs once E) A occurs twice

9. If 2 is the first symbol,which of the following could not be in one of the other three positions

A) 1 B) 3 C) 4 D) C E) D

Questions 10-14

Ms.Jones has invited three couples to have dinner with her and her husband .She has three seats on either side of the table and one at each end .The four women are Gloria,Heidi,Isabela and Jasmine and the four gentlemen are Rembrandt,Scott,Tom and Upton.Ms Jones has some particular restrictions on the seating arrangements .

The persons at the head and foot of the table must differ in sex.

On either side of the table ,persons of the same sex may not be next to each other

Tom and Isabela may not be on either side

Upton may not be seated on the same side as Jasmine

10. If Isabela is in the middle seat and Upton is at the head ,which of the following must be true ?

- A) Jasmine is at the foot
- B) Rembrandt is at the foot
- C) Gloria is on the same side as Isabela
- D) Scott is seated on the side opposite Isabela
- E) Tom is seated on the side opposite Isabela

11. Which of the following could not be at the foot if Jasmine is at the head ?

- A) Heidi B) Rembrandt C) Scott D) Tom E) Upton

12. Where must Tom sit if Scott is at the foot ,Upton is at an end on one side and Isabela is at an end on the other side ?

- A) At the end B) Middle seat on Upton's side C) End seat on Upton's side
- D) Middle seat on Isabela's side E) End seat on Isabela's side

13. If Tom is at the head ,Rembrandt in middle seat and Isabela in the other middle seat what else may be true ?

- A) Gloria is at the foot B) Heidi is on Isabela's side C) Jasmine is on Isabela's side
- D) Scott is on Rembrandt's side E) Upton is on Rembrandt's side

14. If Tom is at the foot ,Upton is in the middle seat ,who must be seated at the head ?

- A) Gloria B) Heidi C) Jasmine D) Rembrandt E) Scott

Questions 15-19

A landscape contractor is planting a row of seven kinds of trees .One tree has not arrived yet .We will label the trees A through F and number the evenly spaced holes 1 through 7 ,from left to right.The landscape architect has specified the following :

The distance from A to B must be same as that from C to D

Trees E and F must be in adjacent holes

The empty hole must not be the extreme right one

15. Which of the following placements conforms to the rules ?

- A) B,empty ,A,E,F,D,C
- B) B,C,empty, D,A,F,E
- C) D,E,B,C,F,empty,A
- D) D,F,E,A,C.empty,B
- E) Empty,D,C,F,E,A,B

16. If F is the second hole ,what else must be true ?

A) A is in 3 B) B is in 4 C) C is in 5 D) Dis in 7 E) E is in 1

17. If A is in 1 and C is in 3, which hole is empty ?

A) 2 B) 4 C) 5 D) 6 E) 7

18. If A is in 3 and B is in 4 what could be true ?

A) C is in 6 B) C is in 5 C) D is in 6 D) F is in 1 E) 6 is empty

19. Which of the following could be an empty hole ?

A) 7 B) 2 C) 3 D) 4 E) 6

Questions 20-24:

The following data is about people killed in accidents in India over a period of 10 years .Study the data carefully and answer the following questions.

Year Total People killed No. of people killed in coal mines

1986 1230 415

1987 1150 395

1988 1300 406

1989 946 324

1990 1040 256

1991 1250 115

1992 1154 108

1993 948 121

1994 1278 285

1995 846 89

20. Which year showed the highest % increase in the number of people killed in Coal mines over the preceding year ?

A) 1989 B) 1993 C) 1994 D) 1991 E) 1986

21. In which year were minimum number of people killed in industrial accidents other than those killed in Coal Mines

A) 1993 B) 1992 C) 1989 D) None of these E) 1995

22. The difference between % of the number of people killed in Coal Mines to the total number of people killed in 1992 and 1993 is

A) 17.2 % B) 13.2% C) 6.31 % D) 3.5 % E) 8.21%

23. If the total number accidents in 1996 is 1472 and decrease in % of coal accidents from 1995-96 is 20% the number of Coal accidents in 1996 is

A) 155 B) 124 C) 71.2 D) None of these E) 96

24. 35% of the people killed in industrial accidents during 1988 were insured by LIC and LIC paid Rs 10920.0000 towards insurance. What was the amount paid to each person ?

A) 24000 B) 77000 C) 46000 D) 22000 E) 35000

25. If August 15, 1947 was a Friday, then what day was August 15 1987 ?

26. If May 6, 1969 was a Tuesday, the next time May 6 was a Tuesday was in the year 19__ ?

27. At 1.05 what is the angle formed by the minute hour hand ?

28. If the minute hand passes the hour hand once every 65 minutes then what can be said of the accuracy of the clock. Is it fast, slow or on time ?

29. Two clocks chime together on the hour. One gains 5 minutes while the other loses 5 minutes every hour. After how many hours will they chime together again ?

30. A watch which loses 6 min every half an hour is set to the correct time at 12 noon. What is the actual time when the time indicated by watch is 8 pm ?

Question from 31-35 were based on predicting the next pattern from a given set of figures

1. A 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.

I suggest you must go for these questions coz in 3 or
4 mins you can answer 7 or 8 qs

3. About 4 to 5 questions on arranging 4 sentences to
form a paragraph.

4. 3 qs on finding error in English sentences (two or
three sentences given any one is incorrect which is
underlined) you have to choose correct sentence from 4
options.

5. If father is three times as old as son. 5 years ago
he was 4 times age of his son what is son age.

6. Same as above but now daughter and mother joined in
and age in question is that of daughter.

7. a figure is given find no of triangles in this

figure

8. Same as above but figure is different and find no of squares and triangles.

9. Sum of a series of n numbers is $n+8$. Find second (or second last) no.